

REPORT

**Vlaamse overheid - Departement
Mobiliteit en Openbare Werken**

Afdeling Maritieme Toegang

Evaluation of the external effects on the siltation in Deurganckdok

Report 2.10: Salt Silt & Current Distribution
entrance Deurganckdok: frame measurements
and through tide measurements: Autumn 2011

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0. SUMMARY

This report presents the factual data of frame measurements during a complete neap-spring and a through tide measurement during an ebb-flood tidal cycle in autumn 2011.

These campaigns will help us also to evaluate the effect of a current deflecting wall (CDW) on the sediment influx in the dock and to gain insight in these siltation mechanisms. A CDW was built in August 2011 near the northern entrance of Deurganckdok.

During the frame measurements 3 bottom frames were installed on the riverbed at the north and south side of the entrance of Deurganckdok and CDW. The frames were equipped with instruments to measure velocity, salinity and suspended sediment concentrations (SSC) in the water column. Acoustic Doppler Current Profilers (ADCP) were used to register the current velocity and direction of the whole the water column above the 3 frames. In Sediview software the ADCP backscatter intensities were used to estimate SSC based on water samples and turbidity sensors. At 2 frames the near bed velocity and SSC were measured by using RCM-9 (AADI) and ASM IV (Argus).

During a through tide measurement campaign the rapid IMDC Siltprofiler was used to take SSC and salinity profiles on 15 fixed locations at the entrance of Deurganckdok. An ADCP was logging during the profiling to register the current velocity and direction. The combination of the two instruments gain us insight in the siltation processes during the tidal cycle.

1. INTRODUCTION

1.1 THE ASSIGNMENT

This report is part of a set of reports concerning the project 'Evaluation of the external effects on the siltation in Deurganckdok'. The terms of reference were prepared by 'Departement Mobiliteit en Openbare Werken van de Vlaamse Overheid, Afdeling Maritieme Toegang (16EF/2009/14). The study was awarded to International Marine and Dredging Consultants NV in association with Deltares and Gems International on 8 December 2009.

This study is a follow-up study on the study 'Opvolging aanslibbing Deurganckdok' that ran from January 2006 till March 2009.

Waterbouwkundig Laboratorium– Cel Hydrometrie Schelde provided data on discharge, tide, salinity and turbidity along the river Scheldt and provided survey vessels for the long term and through tide measurements. Afdeling Maritieme Toegang provided maintenance dredging data. Agentschap voor Maritieme Dienstverlening en Kust – Afdeling Kust provided depth sounding measurements.

1.2 AIM OF THE STUDY

The purpose of this study entails evaluating the external effects on the siltation in the Deurganckdok. External effects are those effects caused by recent human operations near Deurganckdok:

- The construction of the Current Deflecting Wall (CDW) downstream of the entrance of the Deurganckdok.
- The deepening and widening of the navigational channel in the Lower Sea Scheldt between the entrance of the Deurganckdok and the access channels to the locks of Zandvliet-Berendrecht.
- The deepening of the entrance to the Deurganckdok by removing the sill at the entrance.

1.3 OVERVIEW OF THE STUDY

This study constitutes of 3 parts:

- Reporting and analysis of existing documents and measurement data
- Execution of specific measurement campaigns to map the siltation and its environmental factors.
- Support in numerical modelling efforts

1.4 STRUCTURE OF THE REPORT

This report is the factual data report for two measurement campaigns:

- SiltProfiler measurements
- Near bed frame measurements in the vicinity of Deurganckdok

This report 2.10, is one of a set of reports that gains insight in sediment and water transport between Deurganckdok and the river Scheldt, which belongs to the second part of this project.

Table 1-1: Overview of the External Effects Deurganckdok Reports

Report Description	
I. Reporting	
I.1 Annual Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities	
1.1	Annual Sediment Balance: year 1: 1/4/2009-31/3/2010 (I/RA/11354/10.067/NZI)
1.2	Annual Sediment Balance: year 2: 1/4/2010-31/3/2011 (I/RA/11354/10.100/MBO/ANF)
1.3	Annual Sediment Balance: year 3: 1/4/2011-31/3/2012 (I/RA/11354/10.101/MBO/ANF)
I.2 Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels	
1.4	Boundary Conditions year 1: 01/04/2009 – 31/3/2010 (I/RA/11354/10.102/MBO/ANF)
1.5	Boundary Conditions year 2: 01/04/2010 – 31/3/2011 (I/RA/11354/10.103/MBO/ANF)
1.6	Boundary Conditions year 3: 01/04/2011 – 31/3/2012 (I/RA/11354/10.104/MBO/ANF)
I.3 Synthesis of CDW research	
1.7	Synthesis report of research on Current Deflecting Wall (I/RA/11354/10.063/MBO)
I.4 Analysis: evaluation of external effects on siltation in Deurganckdok	
1.8	Analysis of external effects on siltation processes and factors (I/RA/11354/10.105/MBO/ANF)
II. Measurement campaigns: Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) & Frame measurements, Through tide measurements (Silt Profiling & ADCP) & Calibrations	
II.1 Through tide measurements fixed transects	
2.1	Through tide Sediview measurement: Entrance DGD during spring tide Autumn 2011 (I/RA/11354/10.106/MBO/ANF)
2.2	Through tide Sediview measurement: Entrance DGD during neap tide Autumn 2011 (I/RA/11354/10.107/MBO/ANF)
2.3	Through tide Sediview measurement: Entrance DGD during spring tide Spring 2012 (I/RA/11354/10.108/MBO/ANF)
2.4	Through tide Sediview measurement: Entrance DGD during neap tide Spring 2012 (I/RA/11354/10.109/MBO/ANF)
II.2 Through tide measurements eddy currents	
2.5 ²	Through tide measurements: Eddy Currents DGD 02/03/2010 (I/RA/11283/10.051/MSA)
2.6	Through tide measurements: Eddy Currents DGD Autumn I/RA/11354/10.110/MBO/ANF)
2.7	Through tide measurements: Eddy Currents DGD Spring 2012 (I/RA/11354/10.111/MBO/ANF)
II.3 Salt Silt Distribution entrance Deurganckdok	
2.8 ³	Salt-Silt distribution Deurganckdok 1/4/2009-31/3/2010 (I/RA/11354/10.068/NZI)
2.9	Sal-Silt distribution Deurganckdok 1/6/2011-31/03/2012 (I/RA/11354/10.112/MBO/ANF)
II.4 Current Salt Silt Distribution CDW Deurganckdok	
2.10	Salt Silt & Current Distribution entrance Deurganckdok: frame measurements and through tide measurements: Autumn 2011 (I/RA/11354/11.131/BQU)

Report	Description
2.11	Salt Silt & Current Distribution entrance Deurganckdok: frame measurements and through tide measurements: Spring 2012 (I/RA/11354/10.114/MBO/ANF)
II.5 Quality Control instruments	
2.12	Calibration stationary & mobile equipment 16/03/2011 (I/RA/11354/10.113/MBO/ANF)
2.13	Calibration stationary equipment 2012 (I/RA/11354/12.011/JCA)

²: this report is part of the project Siltation Deurganckdok (11283)

³: this report contains report 2.35 of project Siltation Deurganckdok (I/RA/11283/09.085/MSA)

2. THE MEASUREMENT CAMPAIGNS

2.1 OVERVIEW OF THE PARAMETERS

The first part of the study aims at determining a sediment balance of Deurganckdok and the net influx of sediment. The sediment balance comprises a number of sediment transport modes: deposition, influx from capital dredging works, internal replacement and removal of sediments due to maintenance dredging (Figure 2-1).

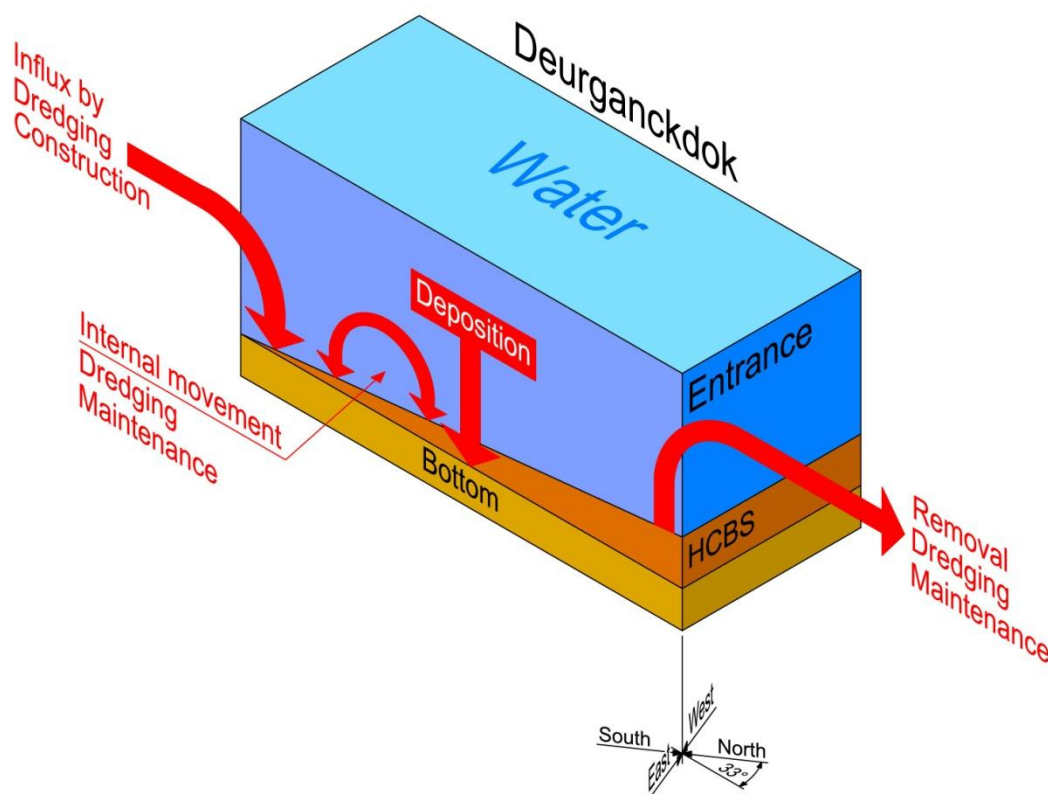


Figure 2-1: Elements of the sediment balance

A net deposition can be calculated from a comparison with a chosen initial condition t_0 (Figure 2-2). The mass of deposited sediment is determined from the integration of bed density profiles recorded at grid points covering the dock. Subtracting bed sediment mass at t_0 leads to the change in mass of sediments present in the dock (mass growth). Adding cumulated dry matter mass of dredged material removed since t_0 and subtracting any sediment influx due to capital dredging works leads to the total cumulated mass entered from the Scheldt river since t_0 .

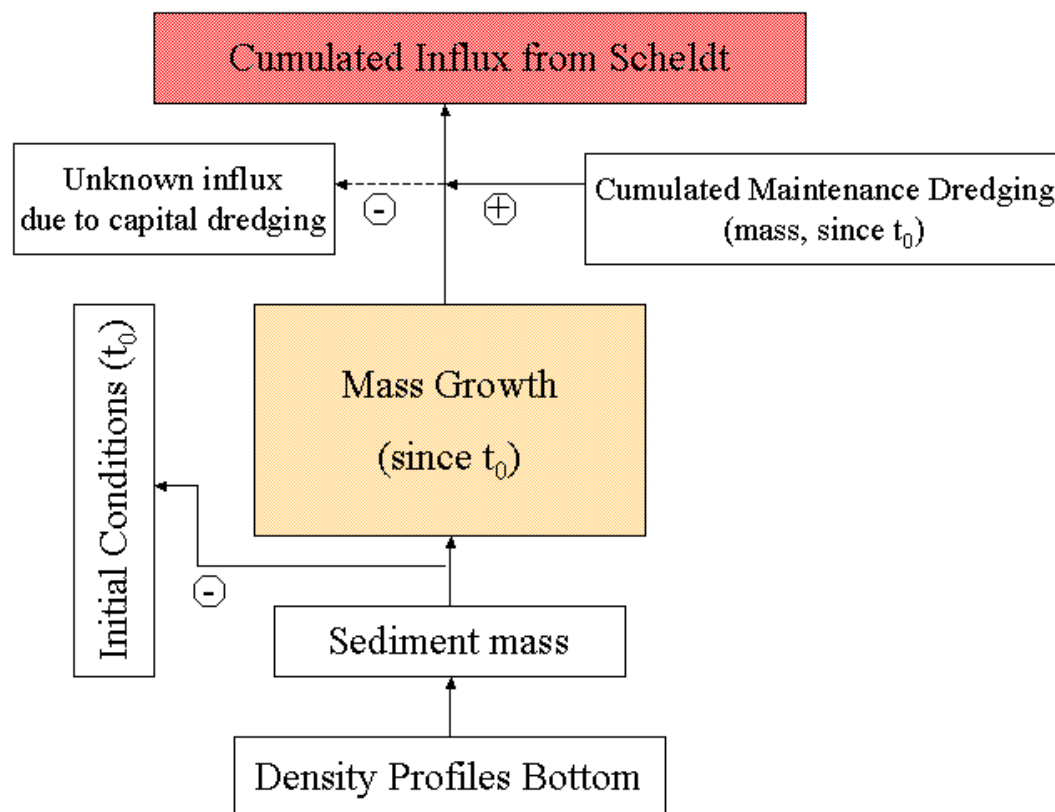


Figure 2-2: Determining a sediment balance

The main purpose of the second part of the study is to gain insight in the mechanisms causing siltation in Deurganckdok. The following mechanisms will be aimed at in this part of the study:

- Tidal prism, i.e. the extra volume in a water body due to high tide
- Vortex patterns due to passing tidal current
- Density currents due to salt gradient between the Scheldt river and the dock
- Density currents due to highly concentrated benthic suspensions

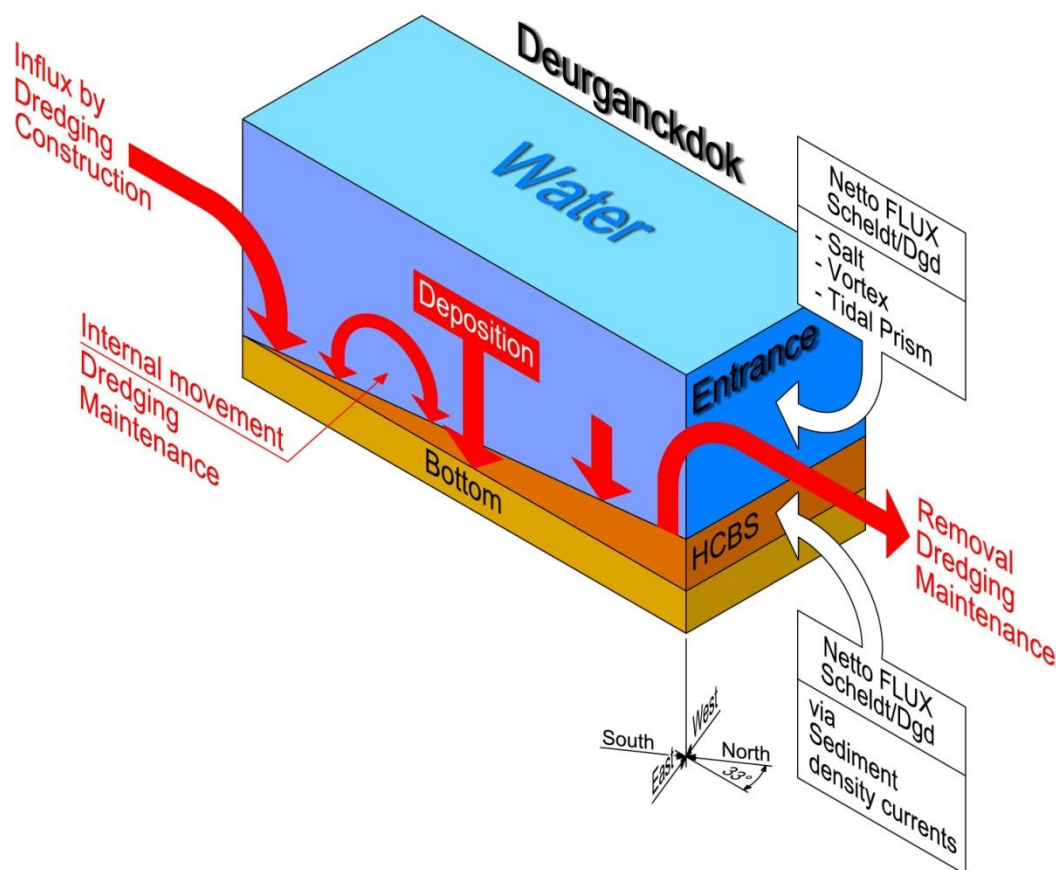


Figure 2-3: Transport mechanisms

These aspects of hydrodynamics and sediment transport have been landmark in determining the parameters to be measured during the project. Measurements will be focussed on three types of timescales: one tidal cycle, one neap-spring cycle and seasonal variation within one year.

Following data are being collected to understand these mechanisms:

- Monitoring the freshwater input (discharge) from the tributaries into the river Scheldt.
- Monitoring salinity and sediment concentration in the Lower Sea Scheldt at permanent measurement locations at Oosterweel, up- and downstream of the Deurganckdok.
- Long term measurement of salinity and suspended sediment distribution in Deurganckdok.
- Monitoring near-bed processes (current velocity, turbidity, and bed elevation variations) in the central trench in the dock, near the entrance as well as near the current deflecting wall location.
- Dynamic measurements of flow pattern, salinity and sediment transport at the entrance of Deurganckdok.
- Through tide measurements of vertical sediment concentration profiles -including near bed high concentrated benthic suspensions.
- Monitoring dredging activities at the entrance channels towards the Kallo, Zandvliet and Berendrecht locks as well as dredging and dumping activities in the Lower Sea Scheldt and Deurganckdok in particular.

In situ calibrations were conducted on several dates to calibrate all turbidity and conductivity sensors.

2.2 MEASUREMENTS OBJECTIVES

Since August 2011, a current deflecting wall (CDW) construction was completed at the Northside of Deurganckdok. This new construction will influence the flow pattern and the distribution of suspended sediment at the entrance of Deurganckdok. As result the high concentration bottom layer of the inflow will deflect towards the river Scheldt and the top layer of the inflow will fill the dock.

The objective of the deployment of 3 anchored measuring frames is to monitor the effect of CDW on the detailed vertical structure of flow and suspended sediment concentration near the bottom during a complete neap-spring cycle. Frames are positioned where the effect of CDW are most likely and on measuring locations of the previous study 'Opvolging aanslibbing Deurganckdok'.

The objective of a through tide measurement is to gain more insight in the distribution and transport of suspended sediment concentration near the bottom as result of the effect of CDW. The measurement is executed during a complete ebb-flood cycle.

2.3 FRAME MEASUREMENT CAMPAIGN

2.3.1 Measurement locations

During the frame measurements 3 bottom frames were placed on the riverbed at the north and south side of the entrance of Deurganckdok and CDW (Figure 2-4).

The first frame, frame CDW_down, was placed north of the CDW (Current Deflecting Wall), near the left bank of the Scheldt. The frame was placed at a depth of -13m TAW roughly. The placement of this frame occurred on the 15th of September at 11h40, the removal of the frame happened on the 9th of October at 12h50. The second frame, frame CDW up, was placed at the northern entrance of the dock. This location is situated south of the CDW, near the left bank of the Scheldt. The frame was placed at a depth of -11m TAW roughly. The placement of this frame occurred on the 15th of September at 11h00, the removal of the frame happened on the 14th of October at 12h30. The third one, frame_sill, was placed at the southern entrance of the Deurganckdock, on the sill. The depth at the location of the frame is -14m TAW roughly. Placement of the frame occurred on the 13th of September at 11h00; the removal of the frame happened on the 18th of October at 11h00. To signal the presence of the frames, buoys were placed near the frames.

Spring tides occurred around the 15th of September 2011, the 29th of September 2011 and the 15th of October 2011. Time is always given in MET.

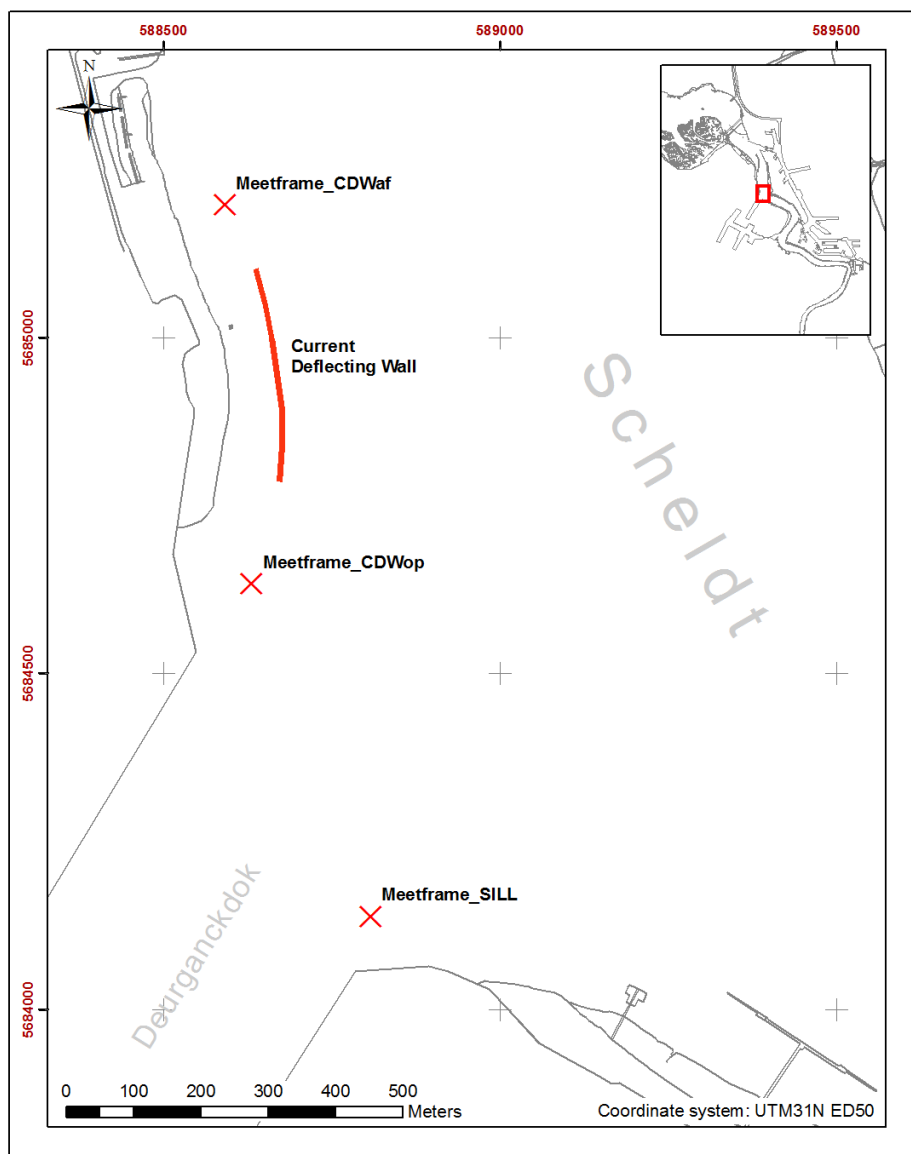


Figure 2-4: Map of the measurement locations.

2.3.2 The frames

Three frames were developed for autonomous measurement of sediment transport phenomena and were designed for easy transport and installation. The structure of the frames of CDWup and SILL consists of a tripod with a length of about 2.8 metres and a vertical pending girder, where the instruments can be clamped to adjustable supports (Figure 2-5). On top of the tripod a special designed frame is attached to supply an ADCP. Hoisting support facilities are attached to the top of the frames. The sensor positions, in particular sensor height above the bed, can be adjusted to specific requirements over a wide range. This place is used to install AADI RCM-9 and Argus ASM IV.

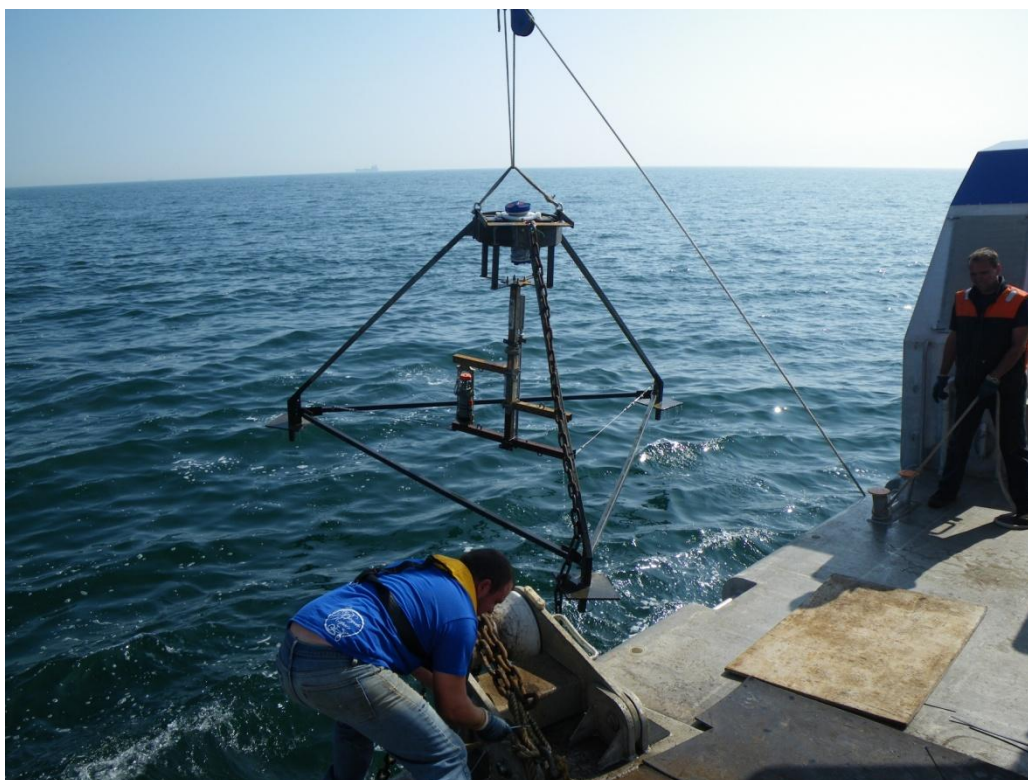


Figure 2-5: A picture of the frame type which is used at locations SILL and CDWup.

A second kind of frame is used downstream from CDW. This frame is especially built for ADCP measurements and is smaller. The total height of the frame is 0.8m and has a total area of about 3m².

On both kind of frames an ADCP is placed to register the current velocity and direction of the whole the water column above the frame. In Sediview software the ADCP backscatter intensities were used to estimate SSC based on water samples and turbidity values.

An overview of the 3 frame set-ups are given Table 2-1.

Table 2-1: Overview of the frame set-ups

Instrument	Height above bottom [m]
Frames Sill and CDWup	
Teledyne RDI ADCP	2.5
AADI RCM-9	0.8
Argus ASM IV	0.2 (lowest turbidity sensor)
Frame CDWdown	
Teledyne RDI ADCP	0.8

2.3.3 Teledyne ADCP workhorse sentinel

The current measurements were conducted using a Teledyne RD Instruments ADCP 600 kHz (CDW_down) and 1200 kHz (CDW_up and Sill) Workhorse. This ADCP system was mounted in a

gimball to ensure the beams will point vertically upwards. An extra battery pack is connected to the Sentinel to ensure a longer measurement period. The main settings are given in Table 2-4.

Every 10 minutes a signal was sent to the logger.

Table 2-2: Main Configuration Settings of ADCP during the campaign

ADCP configuration settings of ADCP during the campaign	
Vertical bin size	1.0 m
Number of currents measures in 1 hour	6
Number of pings to measure currents	10



Figure 2-6: Teledyne ADCP workhorse sentinel

2.3.4 ARGUS ASM-IV

The ARGUS ASM-IV was used to detect the vertical structure of the suspended sediment concentration in the zone of 1 meter above the bed.

The ARGUS ASM-IV was developed for high resolution measuring of accretion and erosion of the riverbed. (ARGUS UMWELT-MEATECHNIK, 2005). The instrument operates with backscatter infrared laser sensors embedded in a stainless steel rod. The 96 sensors are placed on an active board at a distance of 0.01m of each other. There are three additional sensors: an inclinometer, a pressure gauge and a on board temperature sensor.

A battery powered central unit in the head of the instrument controls activation and power supply of the sensors as well as the transmission of the signals. The sealed in unit consists of a microprocessor, a data memory, the additional sensors and the energy supply.

The ARGUS ASM-IV has a sampling interval of 5 seconds and every cycle there are 20 samples taken. The break range between each burst (i.e. pause) is set at 500 seconds. This means that the total cycle time is 600 seconds.

The measurement range of the ARGUS ASM-IV is from 0 to 5000 mg/l.

More details on the ARGUS ASM-IV can be found in the February Survey Reports of the HCBS 1 measurement campaign (IMDC, 2005h)



Figure 2-7: ARGUS ASM-IV

2.3.5 AADI RCM-9

All sensors (temperature, pressure, conductivity, turbidity, tilting) except the Doppler Current Sensor were set to record once every 10 minutes. The Doppler Current Sensor sent 600 pings during every 10 minute-interval and calculated the average value for current speed and direction over this interval. Data storage units in the instruments logged all the measured values.



Figure 2-8: AADI RCM9

2.4 SILTPROFILER MEASUREMENT CAMPAIGN

2.4.1 Procedure

Turbidity, salinity, temperature and currents profiles were conducted on 15 fixed locations during one tidal cycle. From the survey vessel a measurement cycle was completed sailing three parallel transects (X, Y and Z) at the entrance of the Deurganckdok (Figure 2-9). A high resolution turbidity profile was measured with the rapid SiltProfiler at 5 locations on each transect. During the profiling an ADCP was logging to register the current velocity and direction. To combine both instruments will visualize the sediment transport on each profiled location.

An overview with all the measurement locations of the SiltProfiler measurements can be found in Table 2-3.

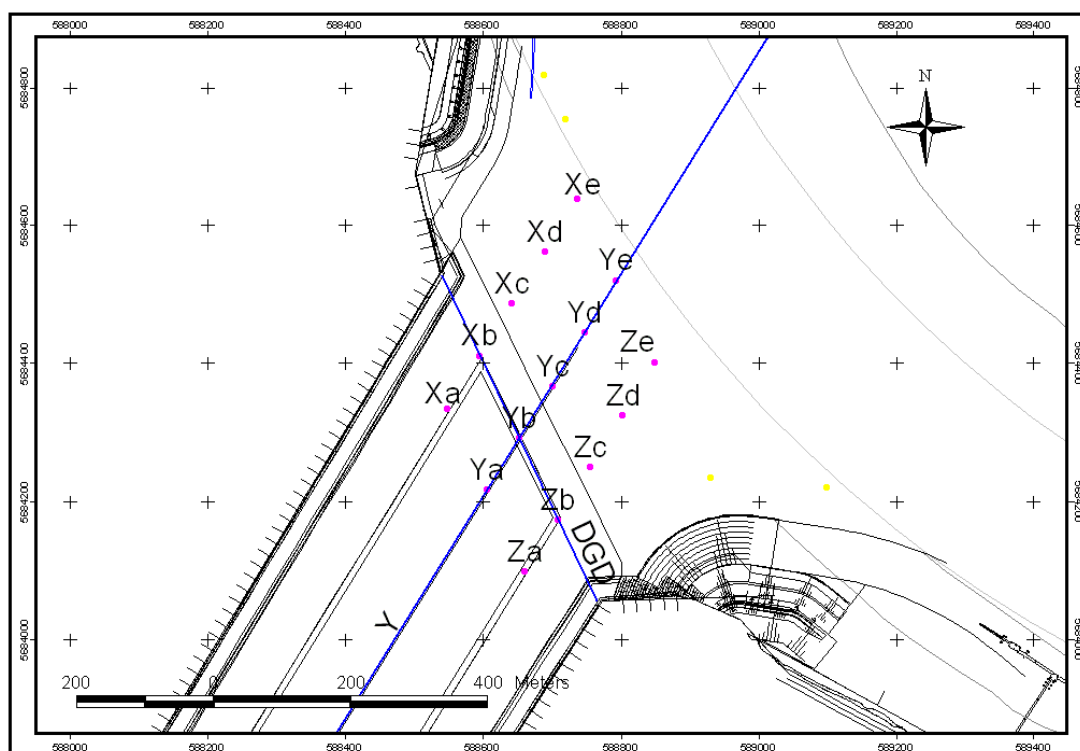


Figure 2-9: Map of the measurement locations in the vicinity of Deurganckdok

Table 2-3: Positions of the measurement points for September 27th 2011 at the entrance of Deurganckdok.

Measurement point	Bank	Easting (UTM31 ED50)	Northing (UTM31 ED50)
Xa	Left bank	588 549	5 684 335
Xb	Left bank	588 596	5 684 411

Measurement point	Bank	Easting (UTM31 ED50)	Northing (UTM31 ED50)
Xc	Left bank	588 643	5 684 486
Xd	Left bank	588 690	5 684 562
Xe	Left bank	588 737	5 684 638
Ya	Center	588 606	5 684 217
Yb	Center	588 653	5 684 293
Yc	Center	588 700	5 684 368
Yd	Center	588 747	5 684 444
Ye	Center	588 793	5 684 520
Za	Right bank	588 662	5 684 099
Zb	Right bank	588 709	5 684 174
Zc	Right bank	588 756	5 684 250
Zd	Right bank	588 803	5 684 326
Ze	Right bank	588 850	5 684 402

2.4.2 SiltProfiler

The SiltProfiler has the following general specifications. The data collection is executed locally (i.e. on the profiler) by an integrated data logger. Sensor cables are kept very short and connect to the interfacing electronics of the data logger. The data logger collects the sensor signals and records the same in internal memory. Simultaneously the data are transmitted via a serial communication cable (if connected). Emphasis is on fast data collection and less on the absolute accuracy of the sensors.

In case the communication cable is not connected, the data can be retrieved upon recovery of the profiler via a short range wireless connection. As soon as the profiler breaks the water surface the data can be accessed and transferred to the operator's PC, whereupon the profiler is ready for a new profiling session. The retrieved profile data are visualised immediately in depth profile graphs. This operational mode requires no electrical cables to be attached to the profiler. However, a small box (diameter in the order of 20 cm) with electronics, data logger and batteries is attached to the profiler. The hoisting cable is attached to sturdy structure above the electronics box.

The sensors are:

- one conductivity and temperature sensor with measuring ranges adequate for use in seawater.
- multiple turbidity sensors to cover the entire range of 0 to 55 000 mg/L suspended solids: 2 transmittance sensors (type FOSLIM) are used, in combination with a Seapoint turbidity sensor (0-400 mg/l).
- one pressure sensor.



Figure 2-10: High Resolution SiltProfiler

As such the SiltProfiler is anticipated to rapidly profile the suspended sediment concentration as well as the salinity structure. The SiltProfiler can measure at variable speed up to 100 measurements per second (100 Hz).

The data collection rate is adjustable to optimize for the required vertical / temporal resolution. Further, the data acquisition rate will be depth dependent in such a way that the rate is low in the upper section of the profile and higher in the lower section. Both rates and the changeover depth are user adjustable. The duration of data retrieval depends upon the amount of collected data and the effective data transfer rate.

2.4.3 CTD-Diver

A CTD-Diver was used to measure depth, conductivity and temperature. This instrument was placed on the SiltProfiler as backup. During the measurement campaign all sensors (temperature, pressure and conductivity) were set to record every second.

The technical details on the CTD-diver are given in the winter calibration Report of the HCBS 1 measurement campaign (IMDC, 2006a).

2.4.4 ADCP

The current measurements were conducted using a Teledyne RD Instruments ADCP with a beam angle of 20°. The main configuration is given Table 2-4.

Table 2-4: Main Configuration Settings of a mobile ADCP

Main configuration settings of ADCP Workhorse:
Cell depth: 0.5 m
Number of cells: 50
Number of Water pings per ensemble: 2
Number of Bottom Track pings per ensemble: 2
Time between ensembles: 0
Averaging: None
Speed of Sound: Fixed 1500 m/s
Salinity 0 psu
3-beam solution: enabled
Beam angle: 20°

3. COURSE OF THE MEASUREMENTS

3.1 THE FRAME MEASUREMENTS

An overview of the measurement locations is given in Table 3-1, while a chronological overview of measured data with an explanation can be found in Table 3-2.

Table 3-1: Overview of the measurement locations (WGS 84 UTM 31) and periods

Monitoring Location	Easting	Northing	Period
Deurganckdok CDW down	588 497	5 684 986	15/09/2011 – 14/10/2011
Deurganckdok CDW up	588 537	5 684 423	15/09/2011 – 14/10/2011
Deurganckdok Sill	588 714	5 683 929	13/09/2011 – 14/10/2011

Table 3-2: Overview of missing and faulty data

Deurganckdok CDW down				
Instrument	No data	Faulty data	Period	Comment
ADCP (Z070)		X	15/09 – 25/09/2011 25/09 – 14/10/2011	No problem Battery failure

Deurganckdok CDW up				
Instrument	No data	Faulty data	Period	Comment
ADCP (Z242)			15/09 – 14/10/2011	No problem
ARGUS (Z044)	X		15/09 – 14/10/2011	Instrument failure
RCM9 (Z008)		X	15/09 – 18/09/2011 18/09 – 14/10/2011	No problem Instrument failure

Deurganckdok Sill				
Instrument	No data	Faulty data	Period	Comment
ADCP (Z279)	X		13/09 – 14/10/2011	Instrument failure
ARGUS (Z035)		X	13/09 – 17/09/2011 17/09 – 14/10/2011	No problem Fouling on the sensors
RCM9 (Z012)			13/09 – 14/10/2011	No problem

3.2 THE SILTPROFILER MEASUREMENTS

3.2.1 Measurement period

SiltProfiles were taken at all 15 locations. A total of 166 profiles were successfully taken by the SiltProfiler on the 27th of September 2011 from 8h09 MET until 20h10 MET.

3.2.2 Hydro-meteorological conditions during the measurement campaign

3.2.2.1 Vertical tide during the measurements

The vertical tide was measured at the Liefkenshoek tidal gauge. Graphs of the tide at Liefkenshoek on the 27th of September 2011 can be found in Annex B. Table 3-3 gives the most important characteristics (high and low tide) of the tide at this gauge on the 27th of September 2011.

Table 3-3: High and low tide at Liefkenshoek on 27/09/2011

Liefkenshoek Tidal Gauge		
27/09/11	Time [MET]	Water level [m TAW]
HW (1)	02:40	5.81
LW (2)	09:40	-0.08
HW (3)	15:10	5.52

In Table 3-4 the tidal characteristics of the tide on the 27th of September 2011 are compared to the average tide over the decade 1991-2000 (AMT, 2003).

Table 3-4: Comparison of the tidal characteristics of 27/09/2011 with the average tide, the average neap tide and the average spring tide over the decade 1991-2000 for Liefkenshoek.

	<i>Neap tide (1991 - 2000)</i>	<i>Avg Tide (1991 - 2000)</i>	<i>Spring Tide (1991 - 2000)</i>	<i>Tide 27/09/2011</i>
Water level [m TAW]				
HW (1)	4.63	5.19	5.63	5.81
LW (2)	0.39	0.05	-0.18	-0.08
HW (3)	-	-	-	5.52
Tidal difference [m]				
Falling (1 to 2)	4.24	5.14	5.81	5.89
Rising (2 to 3)	4.24	5.14	5.81	5.89
Duration [hh:mm]				
Falling (1 to 2)	6:40	6:50	7:02	7:00
Rising (2 to 3)	5:59	5:34	5:16	5:30
Tide (1 to 3)	12:39	12:24	12:18	12:30
Tidal coefficient				
Falling (1 to 2)	0.82	1.00	1.13	1.14
Rising (2 to 3)	0.82	1.00	1.13	1.09

The tidal coefficients from 1.09 up to 1.14 for the measured tide of the 27th of September 2011 indicate that this tide is similar to the spring tide for the decade of 1991-2000, and therefore can be classified as a normal spring tide.

3.2.2.2 Meteorological data

Meteorological data at Woensdrecht (NL) was obtained from the Weather Underground website (Wunderground, 2011).

The weather on the 27th of September 2011 was dry. The wind blew all day from the west at an average velocity of 2 km/h and a maximum velocity of 9 km/h. The air temperature varied between 16 and 21°C. The sky was overcast all day without precipitation. It was foggy during the morning and the evening time.

3.2.3 Remarks on data

The measurement day was started with some technical problems with power supply and crane on board of the vessel Nele36 and were fixed during the campaign. Due to these problems the first profiles are sometimes shorter and the first measured cycle took longer as expected.

4. PROCESSING OF DATASETS

4.1 CALIBRATION OF THE TURBIDITY SENSORS

A crucial aspect of the accuracy and reliability of the data concerns the calibration of the instruments before the measurement campaign.

For turbidity, instruments were calibrated relative to a reference instrument, of which the relation between turbidity and SSC was determined precisely during the calibration campaign. Only low concentrations were found in the water column at various tidal phases during the incoming tide at 16/03/2011.

For instruments with a very high turbidity range (SiltProfiler and ASM IV) an in situ calibration is not recommended. It is very hard to find very high concentrations in a homogenous mixture in the Lower Sea Scheldt. Therefore, the siltprofiler and both ASM IV probes have been calibrated in labo conditions and been cross checked afterwards with the in-situ calibration.

The calibration procedure is described in calibration report 2.12 (IMDC, 2012e).

4.2 THE FRAME MEASUREMENTS

4.2.1 Methodology of processing of the ADCP data with Sediview

DRL Software's Sediview was used to process the ADCP data. Sediview is designed to derive estimates of SSC throughout the water column using acoustic backscatter data obtained by ADCP's manufactured by RD Instruments of San Diego, California. Sediview is also used to correct the ADCP depths to calculate the sound velocity based on the CTD-profiles.

4.2.1.1 Acoustic backscatter theory

The acoustic theory governing backscatter from particles suspended in the water column is complex, but the following simplified formula serves to introduce the main factors that are relevant:

$$E = SL + SV + Constant - 20\log(R) - 2\alpha_w R$$

Where:

E = echo intensity,

SL = transmitted power,

SV = backscatter intensity due to the particles suspended in the water column,

α_w = a coefficient describing the absorption of energy by the water,

R = the distance from the transducer to the measurement bin.

The term $20\log(R)$ is a simple geometric function that accounts for the spherical spreading of the beam. The constant is required because each ADCP has specific performance characteristics.

In order to measure the suspended sediment concentration in the water column it is necessary to relate the backscattered sound intensity to the mass concentration in the water. For the purposes of measuring solids concentration on site, it can be shown that the relationship is as follows (derived from Thorne and Campbell, 1992 and Hay, 1991 in DRL (2003)):

$$\log_{10} M_r = \{dB + 2r(\alpha_w + \alpha_s) - K_s\} S^{-1}$$

Where:

- $M(r)$ = mass concentration per unit volume at range, r
 S = relative backscatter coefficient
 K_s = site and instrument constant
 dB = the measured relative backscatter intensity (corrected for beam spreading)
 α_w = water attenuation coefficient
 α_s = sediment attenuation coefficient, which is a function of the effective particle size

In this expression there are four unknowns: S , K_s , α_w and α_s . These parameters are to be determined within Sediview.

4.2.1.2 Water sampling during through tide measurement campaigns

Sediview is used to calibrate the long term data of ADCP to SSC. This calibration method is based on water samples which are taken during through tide measurement campaigns. Two samples are taken within the range of reliable data of the ADCP. For the near-surface sample this means in bin 3 or 4, for the near-bed sample this means at about one or two meter above the sidelobe.

Water sampling is done together with CTD-OBS measurement in order to have two independent SSC measurements for each sample. OBS measurements were compared to the water samples and calibrated with water samples. The water samples were used for Sediview calibration, while cross-calibrated OBS measurements were used as a backup check. The salinity and temperature was used to compute the acoustic water absorption (water attenuation coefficient).

During the through tide campaigns water samples are taken nearby the longterm measurement locations and ad random in time. Due to difference in position and time the error of the calibration set will be greater than a calibration set during a through tide measurement. Figure 4-1 shows a RMSE (root mean square error) of 110 mg/l. The error on the estimated SSC will be greater on days where no calibration set is available.

The calibration workset of CDW upstream is based on water samples which are taken during through tide campaigns on 28/09/2011, 06/10/2011 and 13/10/2011. These measurement days are reported in IMDC (2012a) and IMDC (2012b). Due to the failure of the long term ADCP at CDW downstream (§**Error! Reference source not found.**) no calibration workset can be made. The same calibration coefficients of CDW upstream are used for CDW downstream.

4.2.1.2.1 Calibration workset

The calibration workset consists of ADCP-files, sampling times, sampling depths, SSC obtained from water samples and SSC, temperature and salinity obtained from CTD-OBS readings.

The suspended sediment concentration of the water samples was determined. One-litre samples were filtered over a preweighed desiccated 0.45 micron filter, after which the filter is dried in an oven at 105°C, cooled and weighted (NEN 6484).

4.2.1.2.2 SSC calibration per ensemble pair

In the Sediview calibration process the following parameters must be defined: the site and instrument constant (K_s), the relative backscatter coefficient (S) and the effective particle size per ensemble-pair (near-surface sample and near-bed sample) in order to fit the Sediview-estimate with the suspended sediment concentration of the water samples. These parameter sets may not differ too much from the previous parameter sets, as the environmental conditions will not change that much over a small time interval. To obtain a smooth progress in time of K_s , S and effective particle size an iterative approach is used. The result of the Sediview calibration can be seen in Figure 4-1.

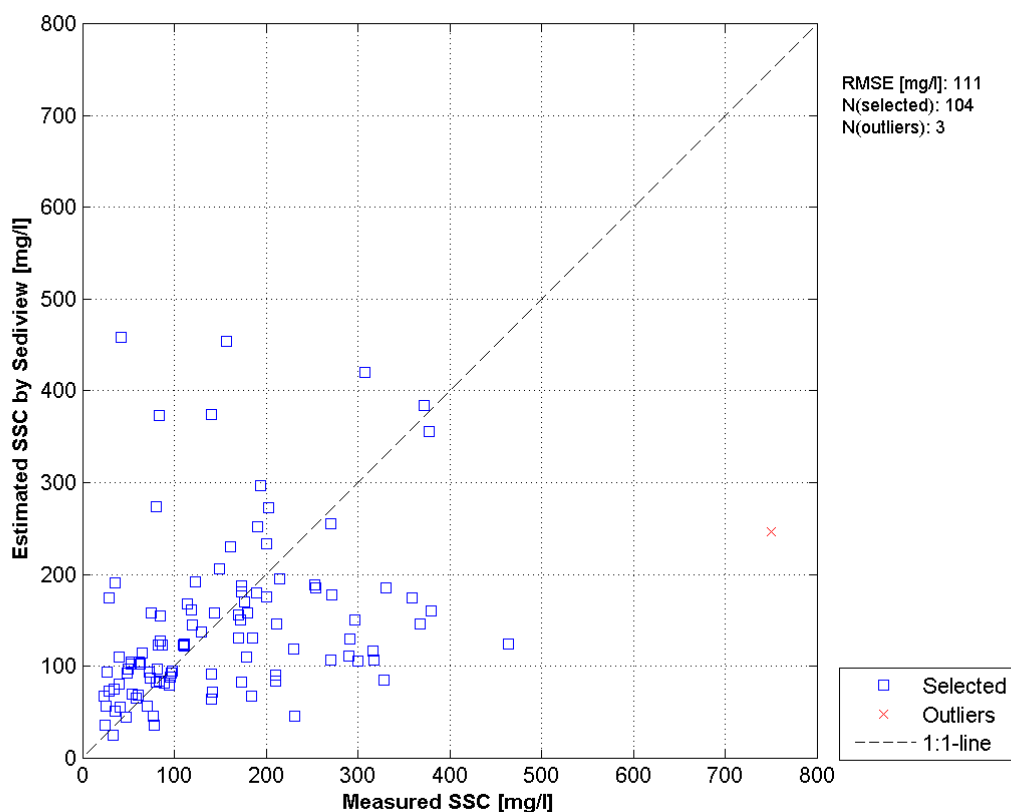


Figure 4-1: Calibration in Sediview for the longterm measurement at CDW upstream.

4.2.2 Timeseries

Timeseries were visualised for all locations in line plots. The longterm data of ADCP and Argus are also shown in contoured timeseries for current velocity, direction and suspended sediment concentration. For each of these parameters depth average values are calculated for the water column above -7.6 mTAW and below -7.6 mTAW. -7.6 mTAW is the highest point of the table of the current deflecting wall, which is to be built at Deurganckdok to reduce sedimentation in the dock.

The figures can be found in Annex C.

4.3 THE SILTPROFILER MEASUREMENTS

4.3.1 Methodology of processing the SiltProfiler data

SiltProfiler data was validated and screened for outliers. Raw data were filtered.

Salinity was calculated using the temperature, conductivity and pressure in the pps-78 formula (Unesco, 1991 & IMDC, 2002)(see Annex B). Turbidity values were converted to suspended sediment concentration.

The SiltProfiler contains 3 turbidity sensors. The Seapoint sensor is used for low concentrations (0-700 mg/l), the Long Range Extinction sensor covers the range between 400 mg/l – 6000 mg/l, after which the Short Range Extinction sensor (5000 mg/l – 55000 mg/l) takes over. All 3 sensors log simultaneously during a measurement. The switchover between two sensors in the processing is done as follows:

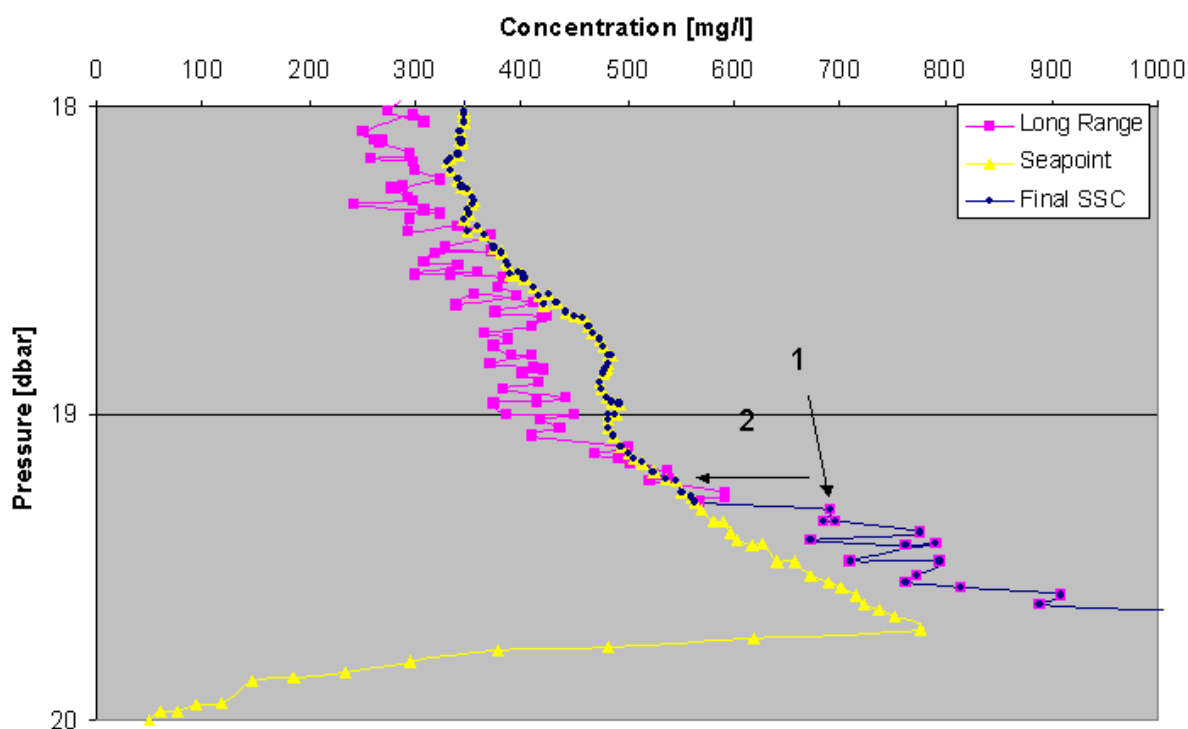


Figure 4-2: Example of Methodology used for the transition of Seapoint to Long Range Sensor for a given profile

Between Seapoint and Long Range Sensor the transition threshold is not fixed. Figure 4-2 visualizes the methodology. As the SSC measured by the Long Range Sensor exceeds 70 mg/l over the SSC measured by the Seapoint Sensor (1), a back track is performed to find at what measurement the Long Range SS concentration exceeds the Seapoint SS concentration.(2). The nearest measurement is chosen as transition point, as is shown by the 'Final SSC' line, which shows. This is done as the Long Range SS concentration slightly underestimates low concentrations.

Between the long range and short range extinction sensor the transition point is fixed. The long range sensor saturates at a concentration of 5880 mg/l, so the transition is fixed at a concentration of 5000 mg/l, leaving a margin of ± 500 mg/l between the transition point and the maximum measurable concentration of the Long Range Sensor.

This method was developed based on a high number of measurements that showed a high variation in SS concentration performed on 21/03/06 in Deurganckdok.

A datasheet was produced that contains a plot showing the change in temperature, salinity and suspended sediment concentration versus depth for each verified profile

Apart from general metadata (date, time, time after HT, coordinates, surface elevation) the water-bottom interface is given as the lowest elevation at which SiltProfiler measured sediment concentration within its range, and the detection of the soft and hard bottom as was measured by the ADCP echosounder.

A table contains measurements with regular spreading in time taken from the profile.

The depth averaged values for temperature, salinity and suspended sediment concentration are calculated.

The "NaN" (Not a Number) –value is used to indicate a no data value (measurement outside range of instrument or not recording).

The SiltProfiler datasheets are given in Annex D

4.3.2 Profiles, depth Averages and transects

The measured profiles by the SiltProfiler were visualised for all locations. An ADCP was logging during the profiling to register the current velocity and direction. During the processing the velocity data is projected to the measured transects which results in:

- a positive value during outflow;
- a negative value during inflow.

The outflow and inflow is referred to Deurganckdok. The use of ADCP and SiltProfiler gain us insight in sediment flux at the entrance of Deurganckdok and are visualised in the profile plots.

Colourplots of salinity, suspended sediment concentration, parallel velocity and sediment flux, as measured by SiltProfiler and ADCP can be found in Annex F. In these plots the spatial suspended sediment concentration distribution for transects X, Y and Z are given for each cycle. The SSC distribution is shown as a cross-section consisting of all 5 profiling locations (a, b, c, d and e) on each transect (X, Y and Z) within one measurement cycle. Point a is always given on the left hand side. In these plots the water-mud interface (as detected by the SiltProfiler) is shown as a black surface.

Also depth-averaged values were tabularised. Depth-averages were computed for SiltProfiler and ADCP data per location.

For each of these parameters the depth-average is given for:

- Total depth
- watercolumn above -7.6m (TAW) and watercolumn below -7.6 m (TAW).

This information is illustrated in figures and tables in Annex E..

5. PRELIMINARY ANALYSIS OF THE DATA

5.1 FRAME MONITORING

5.1.1 CDW down frame data

The timeseries (Annex C) of ADCP data at location CDW downstream show average velocities of 0.4m/s both for the upper water layer as for the water layer below -7.6m (TAW). Maximum velocities occur 1-2 hours before HW and reach values up to 0.9 m/s. During slack water (around HW and LW) the velocity is almost 0 m/s and the SS concentration increases at that time. At that time the concentrations vary between 200-320 mg/l for water layer below -7.6 and between 100-200 mg/l for the upper water layer. The maximum SS concentrations occur at HW in the layer near the bottom. Average estimated SS concentrations vary between 20 up to 300 mg/l. The averaged flow direction during flood is 175° and 355° during ebb.

5.1.2 CDW up frame data

ADCP data (above -7.6 mTAW) of CDW upstream shows average velocities of 0.1m/s which is lower than CDW down and Sill. Maximum velocity occurs 2-3 hours after LW and reach values up to 0.5 m/s. Also a velocity increase is shown at 1 hour after HW and the water flows out of the dock. The minimal velocity occurs 1-2 hours before HW and around LW. At these times the SS concentrations are maximal. The average concentrations in the water layer above -7.6mTAW vary between 30 up to 280 mg/l.

The RCM-9 data shows the similar pattern as the ADCP data.

5.1.3 Sill frame data

The velocities measured by RCM-9 vary from 0.1 up to 0.45 m/s and are recorded 0.8m above the bottom. Around LW and HW the velocities increase. During LW the SS concentration decrease but during HW the SS concentration increases and flows into the dock. SS concentrations vary between 10 and 600 mg/l. SS concentrations reach their maximum during slack water when the velocity is lower than 0.2 m/s. Average SS concentrations measured by the Argus sensors are higher than those measured by the RCM-9 device, especially during HW when concentrations reach their maximum.

5.1.4 Comparison between the 3 measurement locations

Measurement locations CDW upstream and Sill are influenced by the interaction between the river Scheldt and Deurganckdok while CDW downstream is strong dominated by tidal processes on the river Scheldt. In general the SS concentrations (below -7.6 mTAW) are higher at CDW downstream compared to the other locations. Except during HW where higher SS concentrations are registered at the Sill location up to 500 mg/l and flows into the dock near the bottom. At the same time the water above the -7.6mTAW flows outside the dock at CDW up. These facts suggest that a density current or combination with clockwise eddy is active. The density current is result of the higher salinity on the river Scheldt compared to the dock. The RCM-9 data at locations Sill and CDW up shows its maximum in salinity around HW.

The frame measurement campaign is executed during a complete neap-spring tidal cycle. The measured data of each location is summarized in Annex C where the data is generally based on tidal characteristics. The tables show higher SS concentrations during spring tide compared to average and neap tide.

5.1.5 Comparison with previous measurements

Similar measurements at the entrance of Deurganckdok were executed as part of earlier projects: the HCBS and 'aanslibbing Deurganckdok' project (IMDC, 2006s; IMDC, 2007p; IMDC, 2007q; IMDC, 2008m and IMDC, 2008n). These previous measurements were executed before the construction of current deflecting wall (CDW) and at 2 measurement locations. In this project CDW location is split up in 2 other locations: northwards/downstream and southwards/upstream of CDW. The SILL location is still the same.

The frame measurements of autumn 2011 will be compared to the previous DGD measurement campaigns at the SILL location. Comparison will be made for a period of comparable tidal amplitudes, i.e. 27/4/06-6/5/06, 11/8/06-21/8/06, 19/3/07-30/3/07, 27/9/07-7/10/07, 8/3/08-18/3/08 and 28/09/11-11/10/11. Table 5-1 gives an overview of the abbreviations used in the figures for the comparison of the measurement campaigns of the Deurganckdok project. Also the complete measurement period is given.

Table 5-1: Measurement period and abbreviations used for the comparison of the frame measurements of the Deurganckdok project

Measurement campaign	Period	Abbreviation
Spring measurement 2006	19/04/2006 – 23/05/2006	Spring'06
Summer measurement 2006	18/07/2006 – 11/10/2006	Summer'06
Winter measurements 2007	09/02/2007 – 18/04/2007	Winter'07
Autumn measurements 2007	20/09/2007 – 18/12/2007	Autumn'07
Winter measurements 2008	20/02/2008 – 09/04/2008	Winter'08
Autumn measurements 2011	13/09/2011 – 14/10/2011	Autumn '11

When comparing average SS concentrations measured 1m above the bed (RCM9), during a period of comparable tidal amplitudes, the variations seem similar (Figure 5-1).. Further, the highest concentrations at 1m above the bottom were mainly measured during winter and spring and the lowest during summer and autumn. The variations and the magnitude of SSC measurements at SILL after the CDW construction seems similar as before.

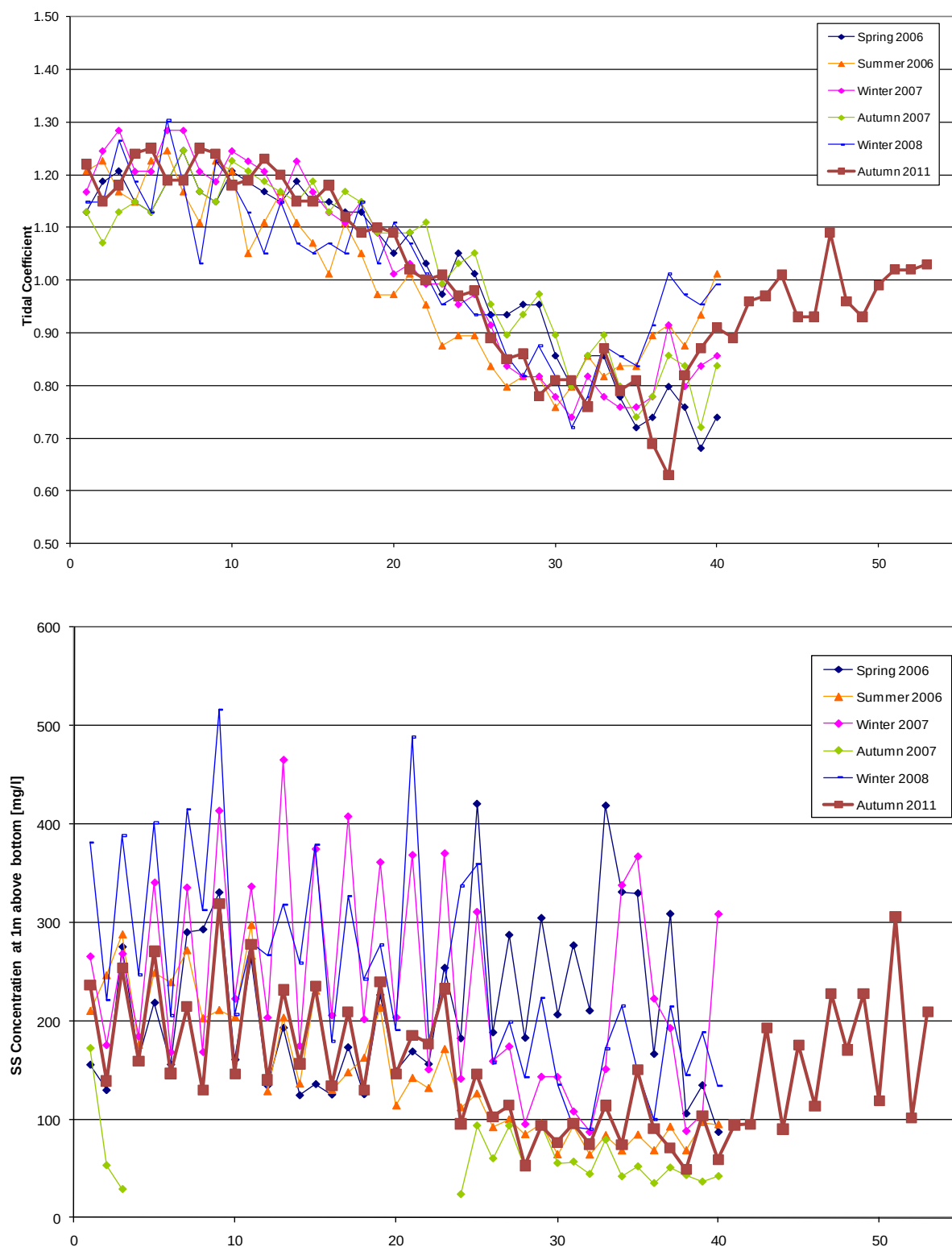


Figure 5-1 Average concentration per tidal phase about 1.0m above the bottom [Sill frame]

5.2 SILTPROFILER MEASUREMENT CAMPAIGN

Concerning the salinity on September 27th 2011, the depth averages range from 8.5 to 13 ppt. The maximal depth average salinity values occur between 1:30 and 2:30 after HW and the minimal depth average salinity values between 4:30 and 5:00 before HW. The points located nearby the river Scheldt have a higher salinity range than the points located in the dock. Due to the salinity difference density currents are formed around HW and LW. Around HW the saltier and sediment richer water of the river Scheldt flows near the bottom into the dock (Figure 5-2).

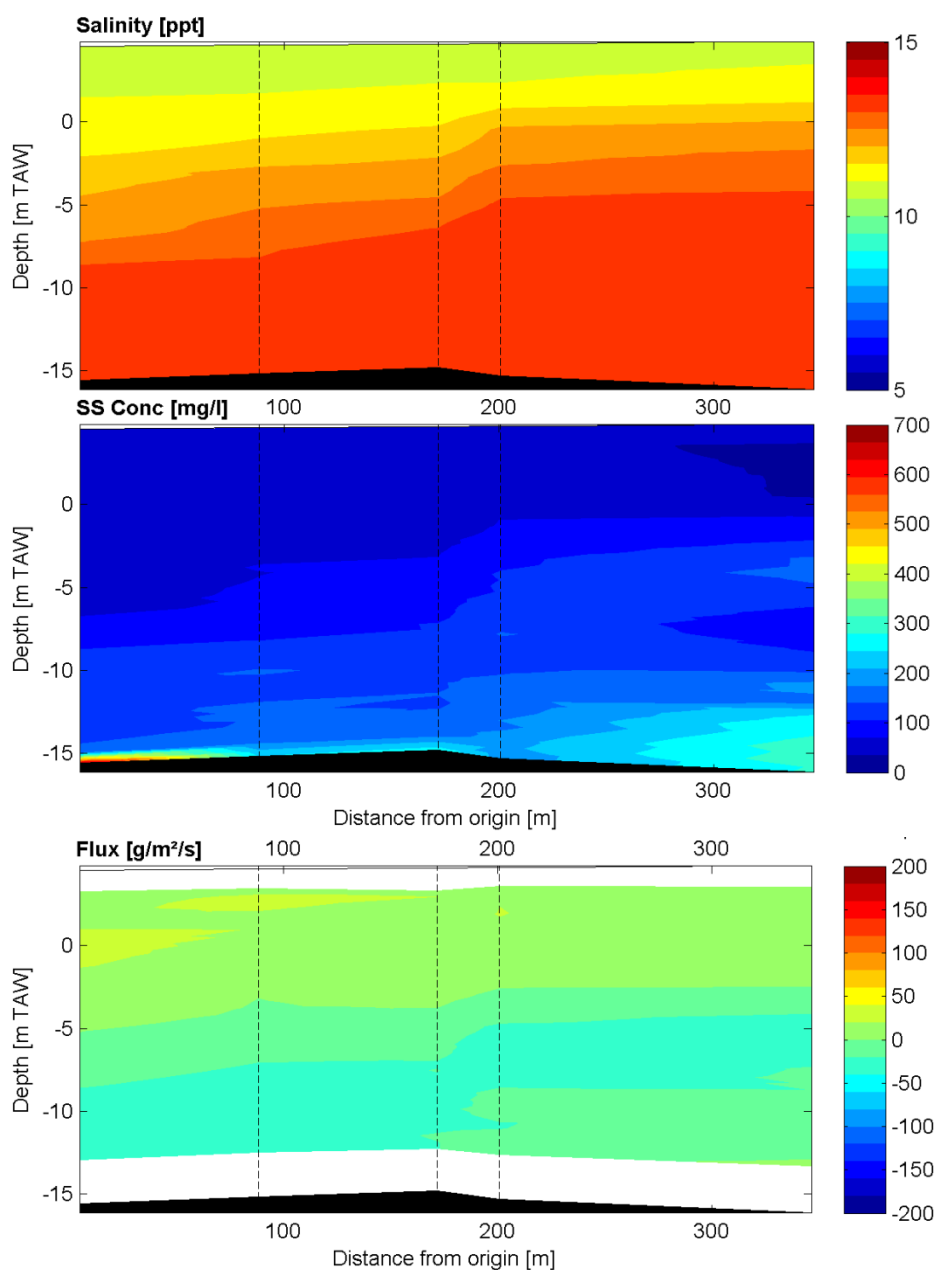


Figure 5-2: The measured density current of HW on transect Z.

Concerning the SS concentrations, the depth averages range from 49 mg/l up to 405 mg/l. The maximal depth average concentrations occur at the Scheldt side (points e and d). The high depth concentration events are around 1:00 before HW. The minimal depth average concentrations on the other hand are more in the dock at the South side (transect Z and points a and b) and are around 3:00 to 5:00 hours after HW (or 1:00 before LW). The SS concentrations in the water layer above -7.6m (TAW) are lower but show the same trend as the bottom layer. In general the average SS concentrations taken over several points during the measurement campaign show a spatial pattern: an increase in average SS concentration from the dock to the river Scheldt and an increase from transect X (North side) to transect Z (South side).

Compared to previous SiltProfiler measurement campaigns at the entrance of Deurganckdok the SS concentrations of this campaign are higher (Table 5-2). The highest average concentrations were mainly measured during winter and spring and the lowest during summer and autumn. The tidal coefficient and period of this campaign were comparable to the SiltProfiler measurement campaign of September 29th 2008 (IMDC, 2009b). In general, the SS concentrations of September 2011 are twice as high and during flood 3 times as high as in September 2008 (Figure 5-3 - Figure 5-5). In contrast to we expect with the construction of CDW the SS concentration during flood are of the same magnitude as measured during winter and spring conditions without CDW. The increase may be related to the presence of turbidity maximum on the river Scheldt during the last measurement or/and the absence of the sill. Since June 2010, the sill at the entrance is dredged whereby the bottom elevation is reduced (Table 5-2).

Table 5-2: Overview of the SiltProfiler measurements at the entrance of Deurganckdok including tidal coefficient, average bottom level and average SSC.

Date	Tidal coefficient	Fresh water discharge [m³/s]	Average bottom elevation [mTAW]			Average SSC during the campaign (mg/l)			SSC Ranking
			Xb	Yb	Zb	Xb	Yb	Zb	
21/03/2006	0.95-0.98	94	-14.1	-14.5	-14.6	79	75	98	4
26/09/2006	1.04-1.08	33	-14.1	-14.5	-14.6	34	32	32	7
The dock is enlarged to 1.019 km² after completing the 3 rd phase									
23/10/2007	0.87-0.96	46	-14.1	-14.5	-13.8	40	55	37	6
12/03/2008	1.06-1.18	286	-13.4	-13.7	-13.8	150	127	131	1
29/09/2008	1.07-1.14	82	-14.1	-14.3	-13.8	49	54	55	5
13/03/2009	1.22-1.24	129	-14.1	-14.3	-13.8	117	99	102	2
Since June 2010, the sill at the entrance is completely dredged and CDW construction is completed in August 2011.									
27/09/2011	1.09-1.14	40	-14.0	-15.1	15.4	112	118	100	3

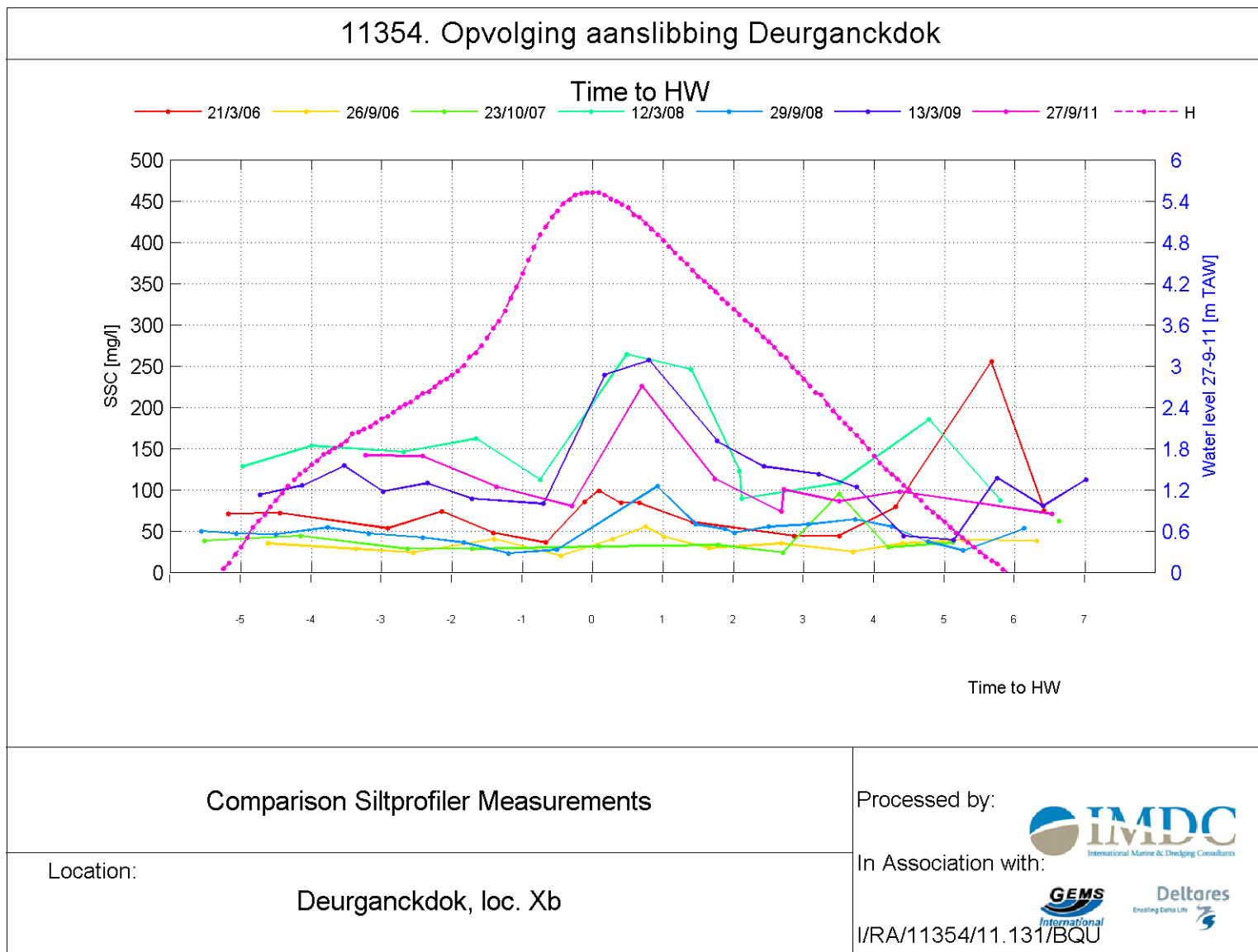


Figure 5-3 Comparison of depth average concentrations at location Xb for all Siltprofiler measurement campaigns at the entrance of DGD

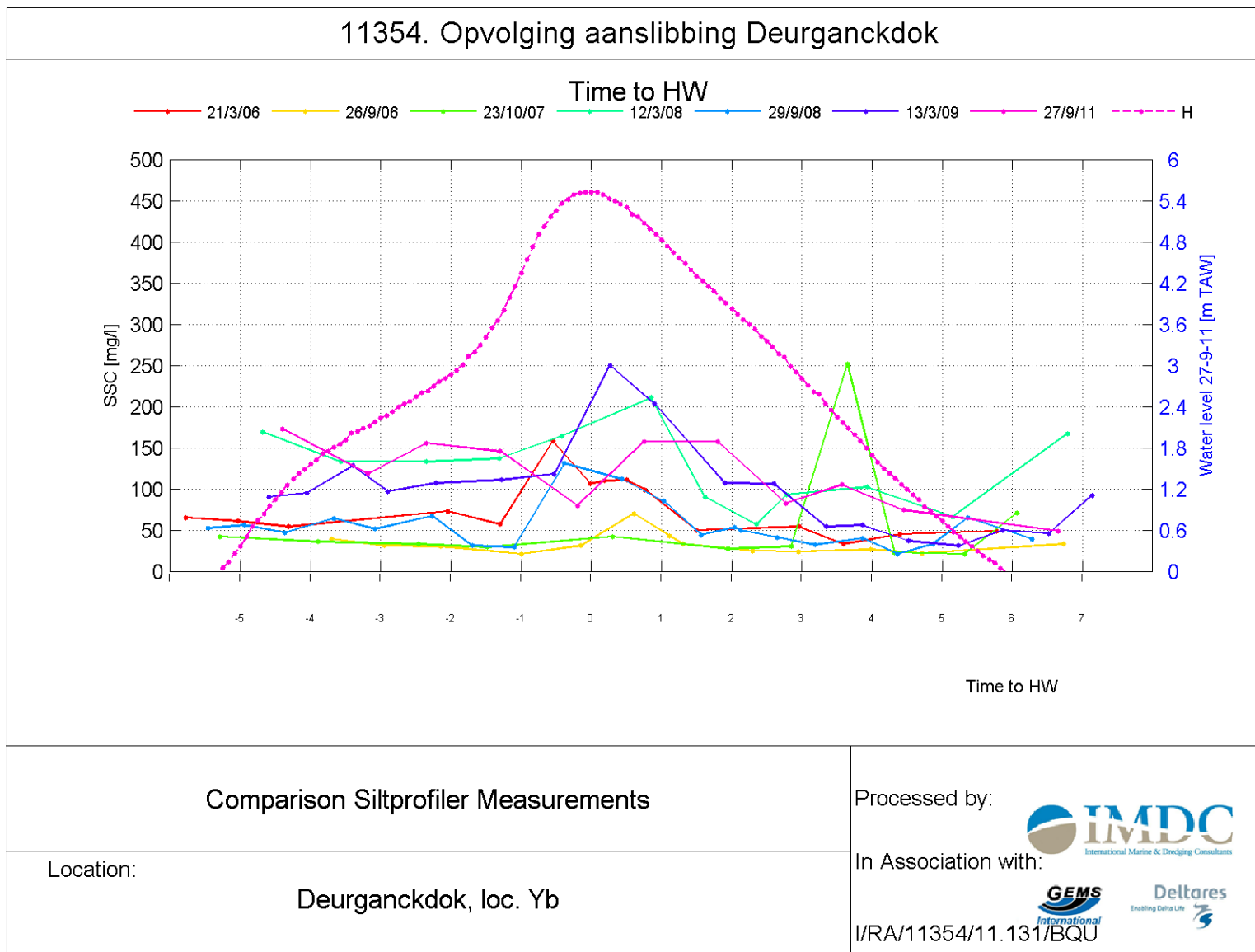


Figure 5-4 Comparison of depth average concentrations at location Yb for all Siltprofiler measurement campaigns at the entrance of DGD

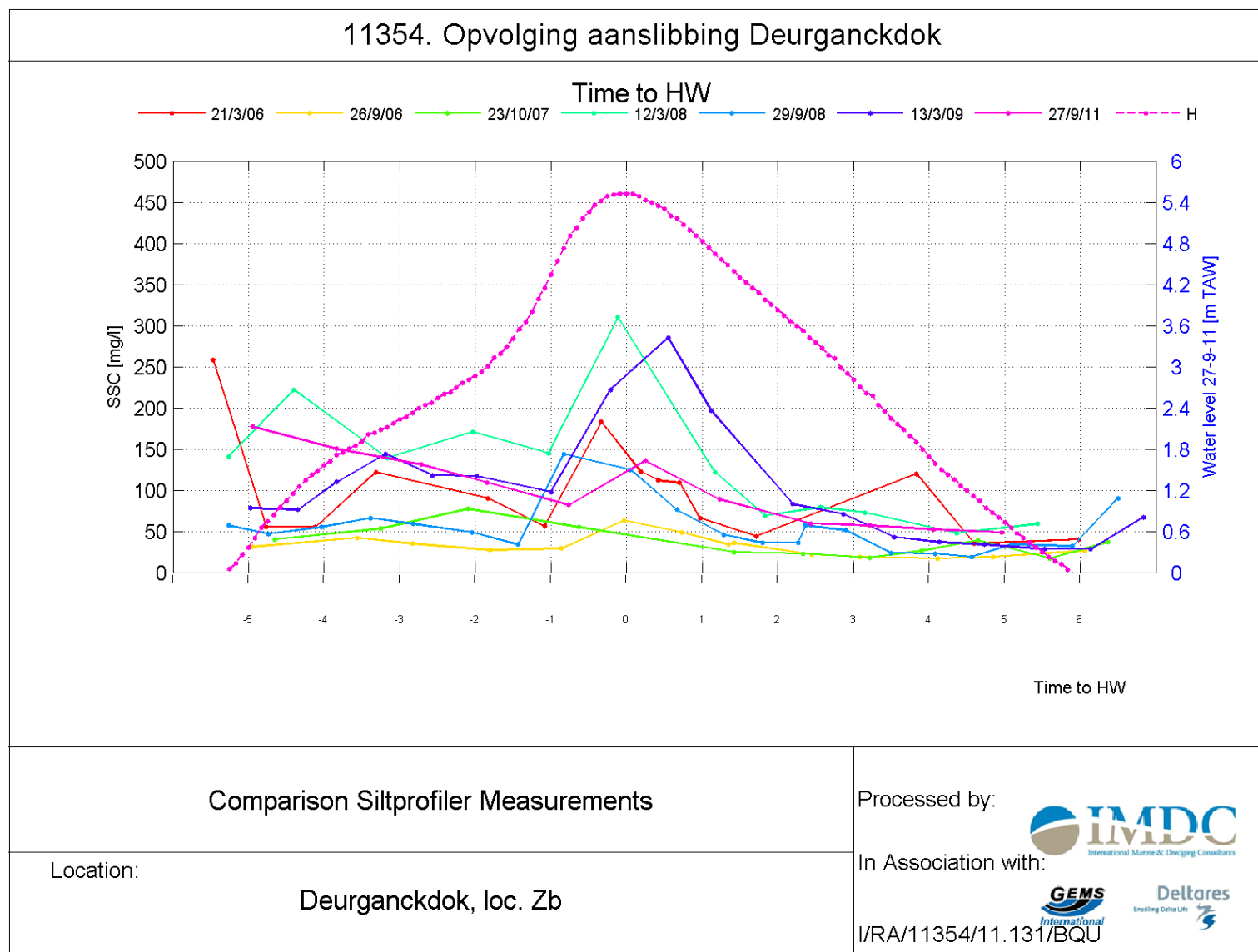


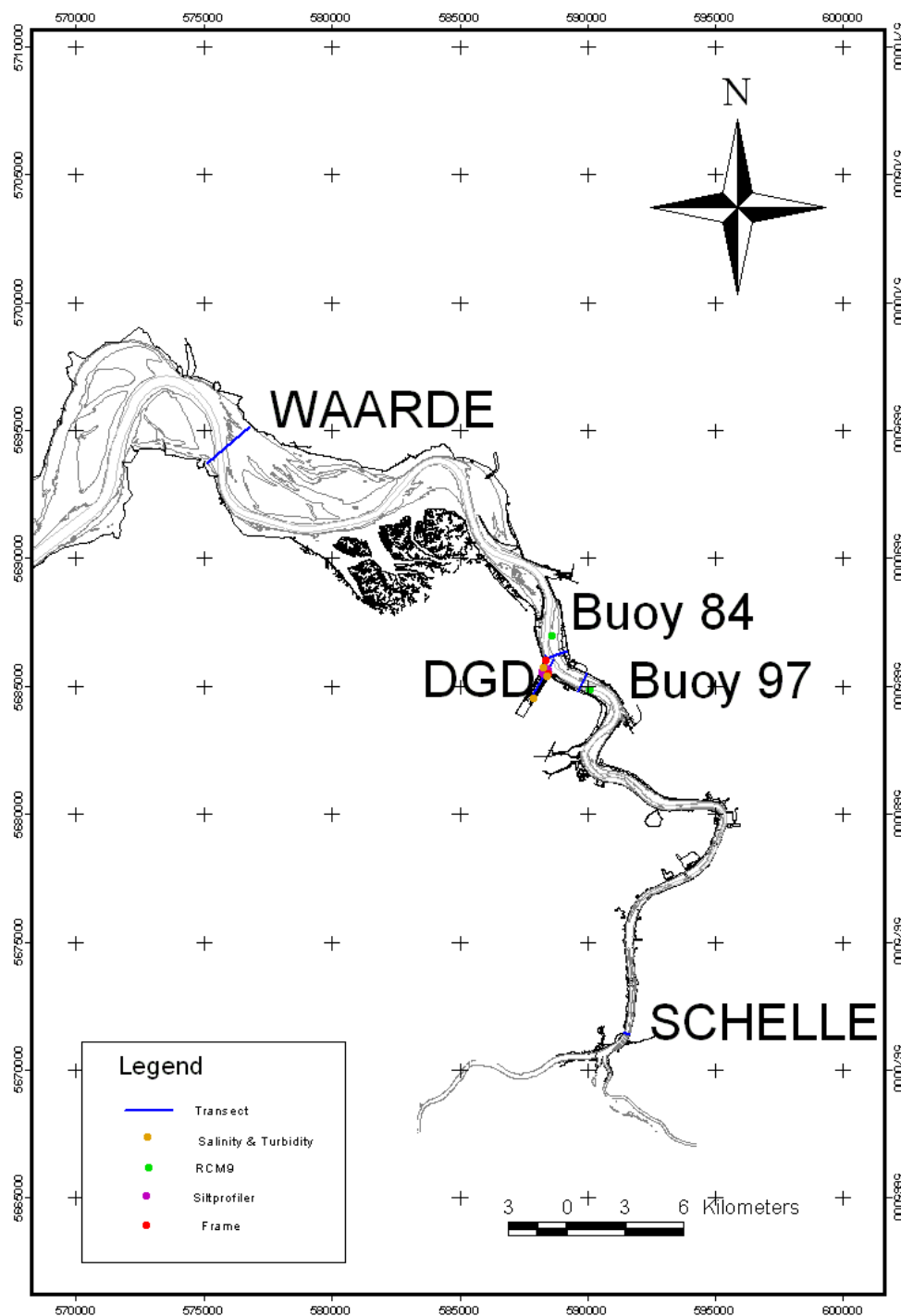
Figure 5-5 Comparison of depth average concentrations at location Zb for all Siltprofiler measurement campaigns at the entrance of DGD

6. REFERENCES

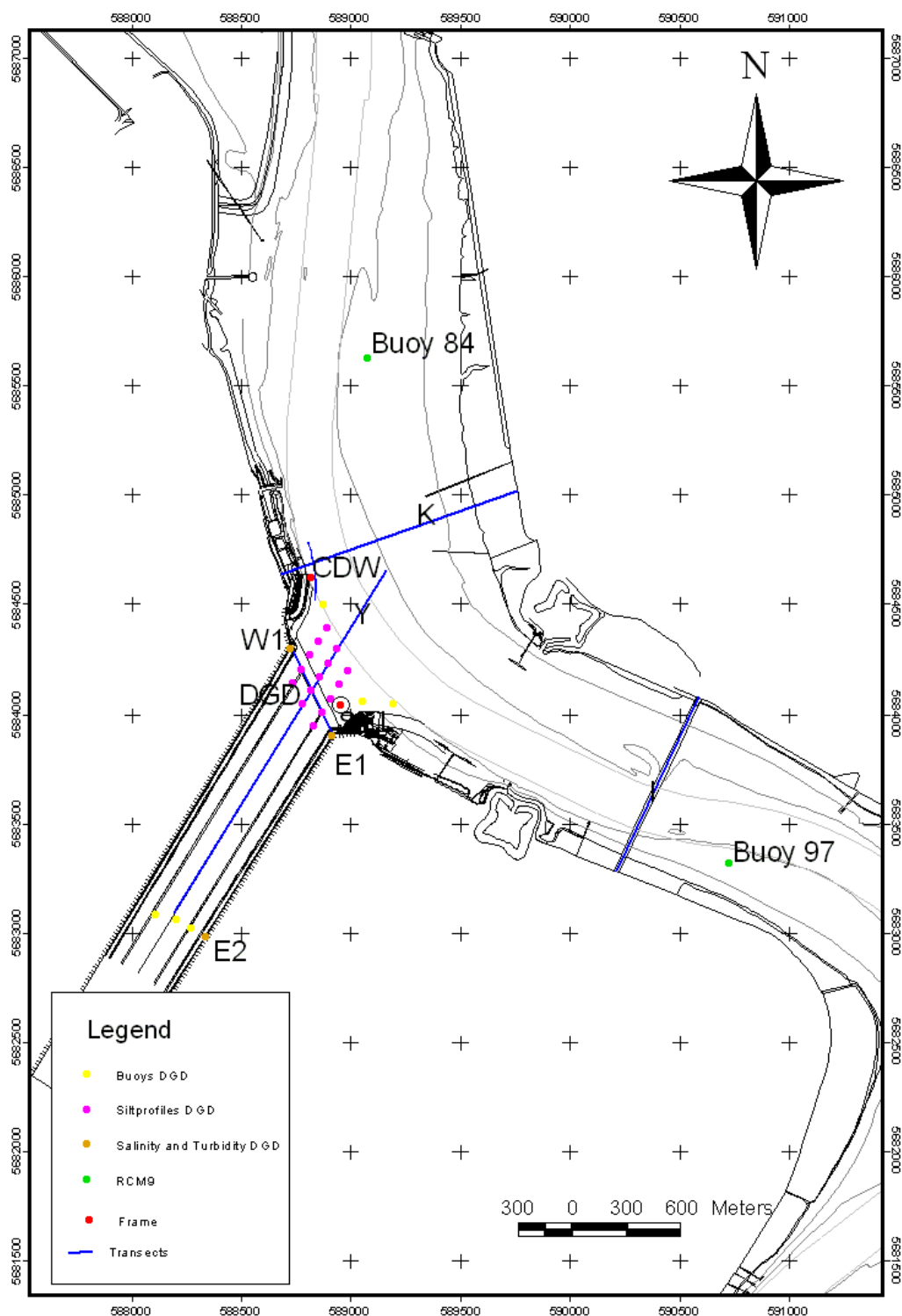
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- IMDC (2007q) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.8 Salt-Silt distribution & Frame Measurements Deurganckdok 15/01/2007 – 15/03/2007 (I/RA/11283/06.123/MSA)
- IMDC (2008m) Langdurige metingen Deurganckdok: Opvolging en analyse aanslibbing. Deelrapport 2.17: Salt-Silt distribution & Frame Measurements Deurganckdok autumn (17/9/2007-10/12/2007) (I/RA/11283/07.093/MSA)
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Annex A Overview of Measurements

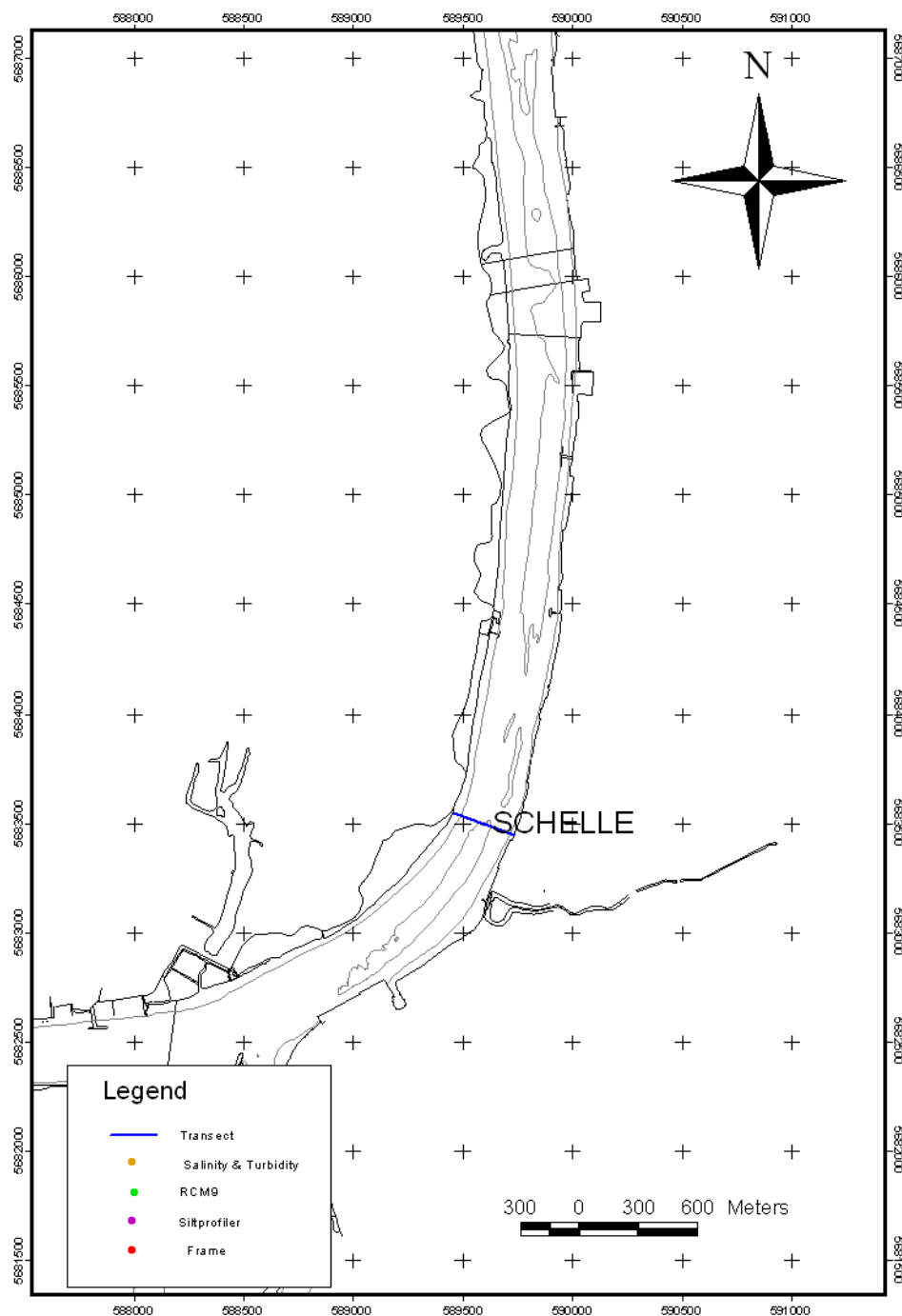
A.1 Overview of the measurement locations for the whole HCBS2 and Deurganckdok measurement campaigns



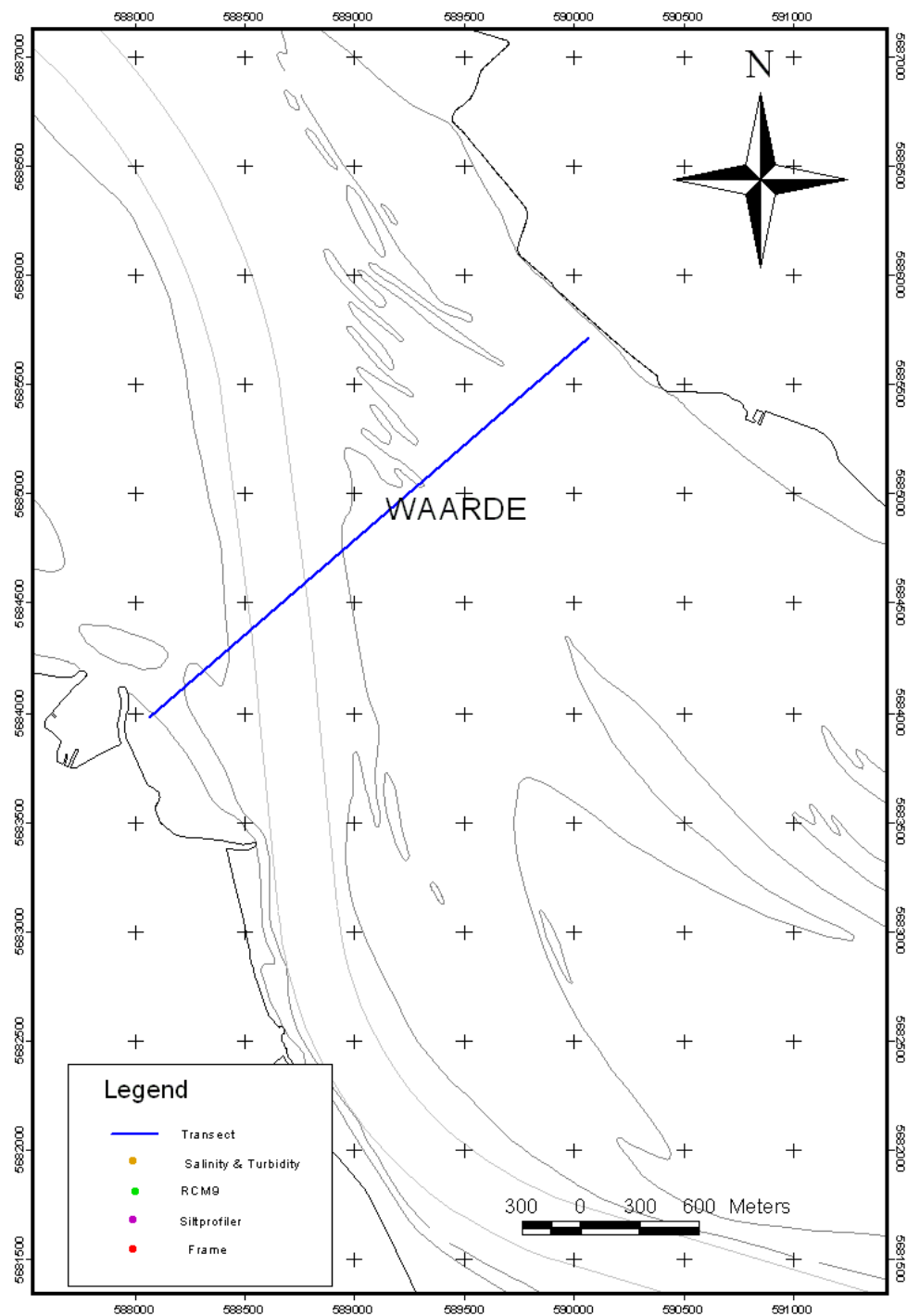
Annex Figure A-1: Overview of the measurement locations



Annex Figure A-2: Overview of the measurement locations at Deurganckdok during previous campaigns



Annex Figure A-3: Transect S in Schelle



Annex Figure A-4: Transect W in Waarde

A.2 Overview of all measurement locations HCBS and Deurganckdok measurement campaigns

Annex Table A-1: coordinates of theoretical transects

<i>Transect</i>	<i>Start Easting</i>	<i>Start Northing</i>	<i>End Easting</i>	<i>End Northing</i>
I	590318	5683302	590771	5684257
K	588484	5684924	589775	5685384
SCHELLE	592645	5665794	592952	5665682
DGD	588765	5684056	588541	5684527
Transect X	588878	5684866	588314	5683955
Transect Y	588934	5684748	588371	5683837
Transect Z	588991	5684630	588427	5683719
Transect 1	588838	5684844	588254	5683880
Transect 2	588891	5684763	588330	5683836

Annex Table A-2: coordinates of SiltProfiler gauging locations

<i>SP</i>	<i>EASTING</i>	<i>NORTHING</i>
1	588737	5684638
2	588690	5684562
3	588643	5684486
4	588596	5684411
5	588549	5684335
6	588606	5684217
7	588653	5684293
8	588700	5684368
9	588747	5684444
10	588793	5684520
11	588850	5684402
12	588803	5684326
13	588756	5684250
14	588709	5684174
15	588662	5684099

Annex B Unesco PSS-78 forumula for calculating salinity

Practical Salinity Scale (PPS 78) Salinity in the range of 2 to 42

Constants from the 19th Edition of Standard Methods

R cond.ratio	0.0117	R = $\frac{C}{42.914\text{mS / cm}}$							
C Cond at t	0.5	Input conductivity in mS/cm of sample							
t deg. C	22.00	Input temperature of sample solution							
P dBar	20	Input pressure at which sample is measured in decibars							
Rp	1.0020845	R_p = $1 + \frac{p(e_1 + e_2p + e_3p^2)}{1 + d_1t + d_2t^2 + (d_3 + d_4t)R}$							
rt	1.1641102	r_t = $c_0 + c_1t + c_2t^2 + c_3t^3 + c_4t^4$							
Rt	0.0099879	R_t = $\frac{R}{R_p \times r_t}$							
Delta S	-0.0010	Delta S = $\frac{(t-15)}{1+k(t-15)} (b_0 + b_1R_t^{1/2} + b_2R_t^{3/2} + b_3R_t^{5/2} + b_4R_t^2 + b_5R_t^{5/2})$							
S = Salinity	0.257	S = $a_0 + a_1R_t^{1/2} + a_2R_t^{3/2} + a_3R_t^2 + a_4R_t^{5/2} + a_5R_t^2 + \text{delta S}$							
a0	0.0080	b0	0.0005	c0	0.6766097	d1	3.426E-02	e1	2.070E-04
a1	-0.1692	b1	-0.0056	c1	2.00564E-02	d2	4.464E-04	e2	-6.370E-08
a2	25.3851	b2	-0.0066	c2	1.104259E-04	d3	4.215E-01	e3	3.989E-12
a3	14.0941	b3	-0.0375	c3	-6.9698E-07	d4	-3.107E-03		
a4	-7.0261	b4	0.0636	c4	1.0031E-09				
a5	2.7081	b5	-0.0144						
		k	0.0162						

R = ratio of measured conductivity to the conductivity of the Standard Seawater Solution

Conductivity Ratio R is a function of salinity, temperature, and hydraulic pressure. So that we can factor R into three parts i.e.

$$R = R_t \times R_p \times r_t$$

$$R = C(S, t, p) / C(35, 15, 0)$$

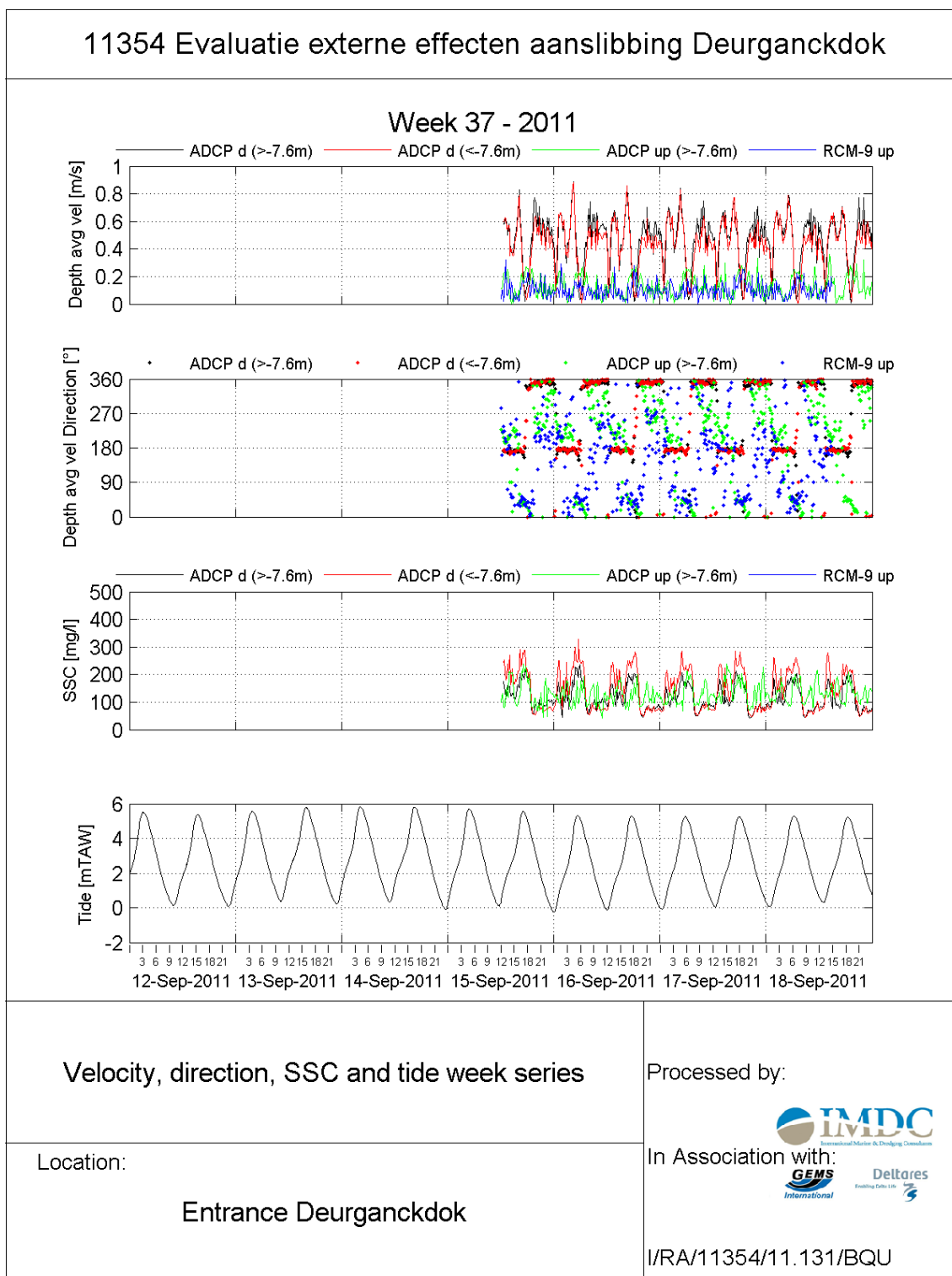
C = 42.914 mS/cm at 15 deg C and 0 dbar pressure ie C(35,15,0) where 35 is the salinity

Ocean pressure is usually measured in decibars. 1 dbar = 10⁻¹ bar = 10⁵ dyne/cm² = 10⁴ Pascal.

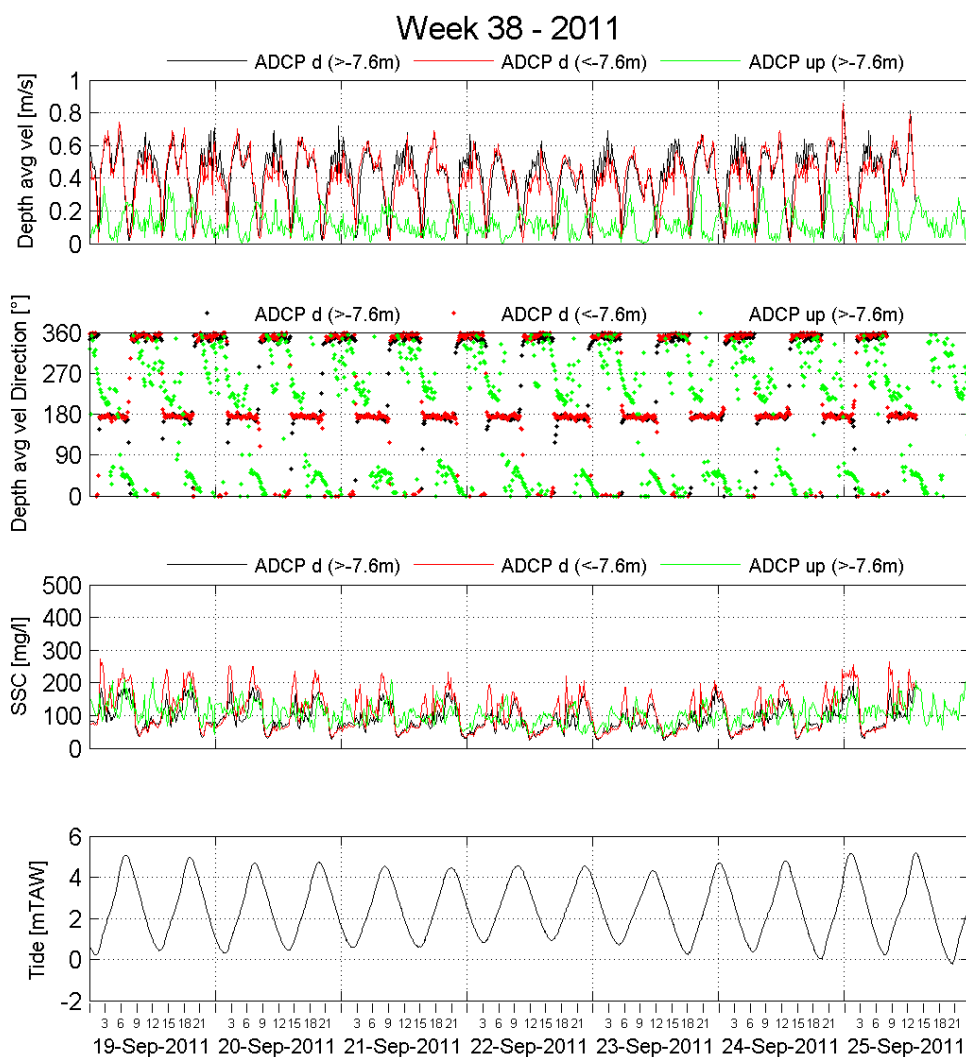
Annex C Velocity – Direction – SSC – Salinity Week Series

C.1 Weekseries

C.1.1 Frames CDW upstream and CDW downstream



11354 Evaluatie externe effecten aanslibbing Deurganckdok



Velocity, direction, SSC and tide week series

Processed by:

Location:

Entrance Deurganckdok

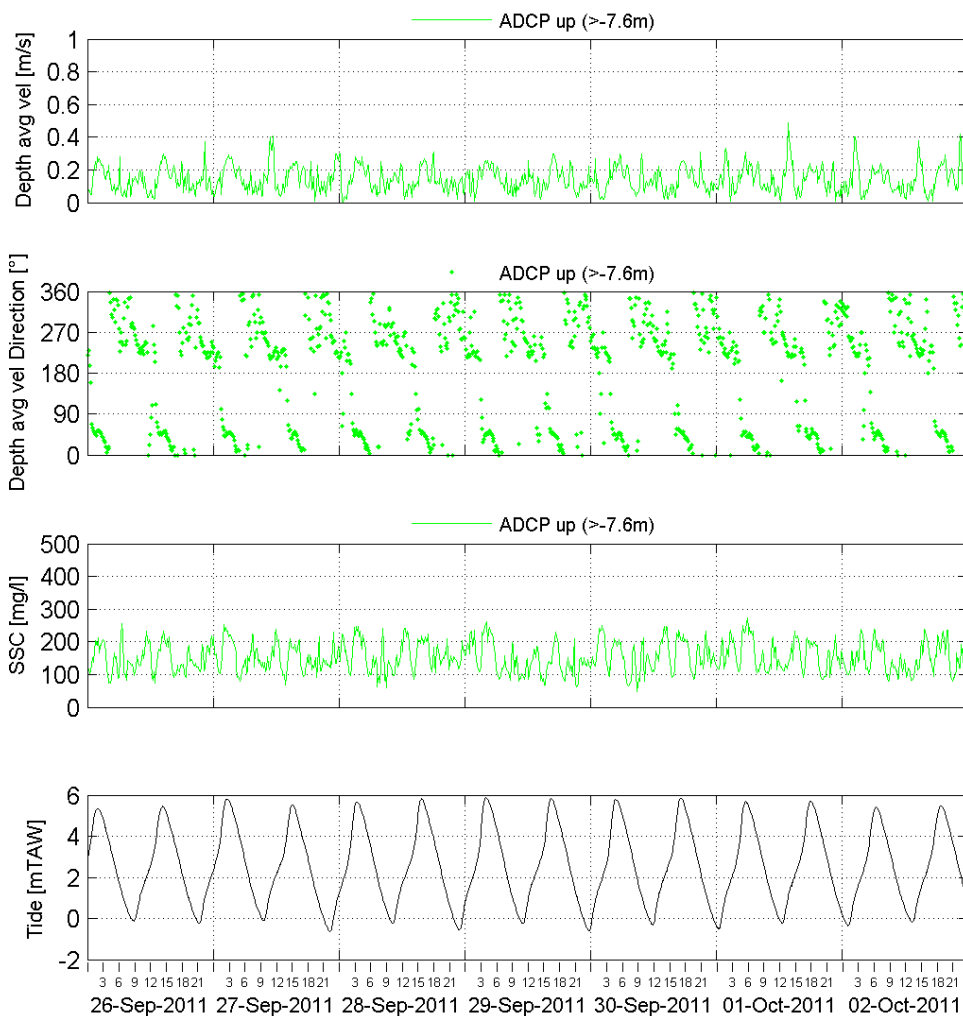
In Association with:



I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok

Week 39 - 2011



Velocity, direction, SSC and tide week series

Processed by:



In Association with:



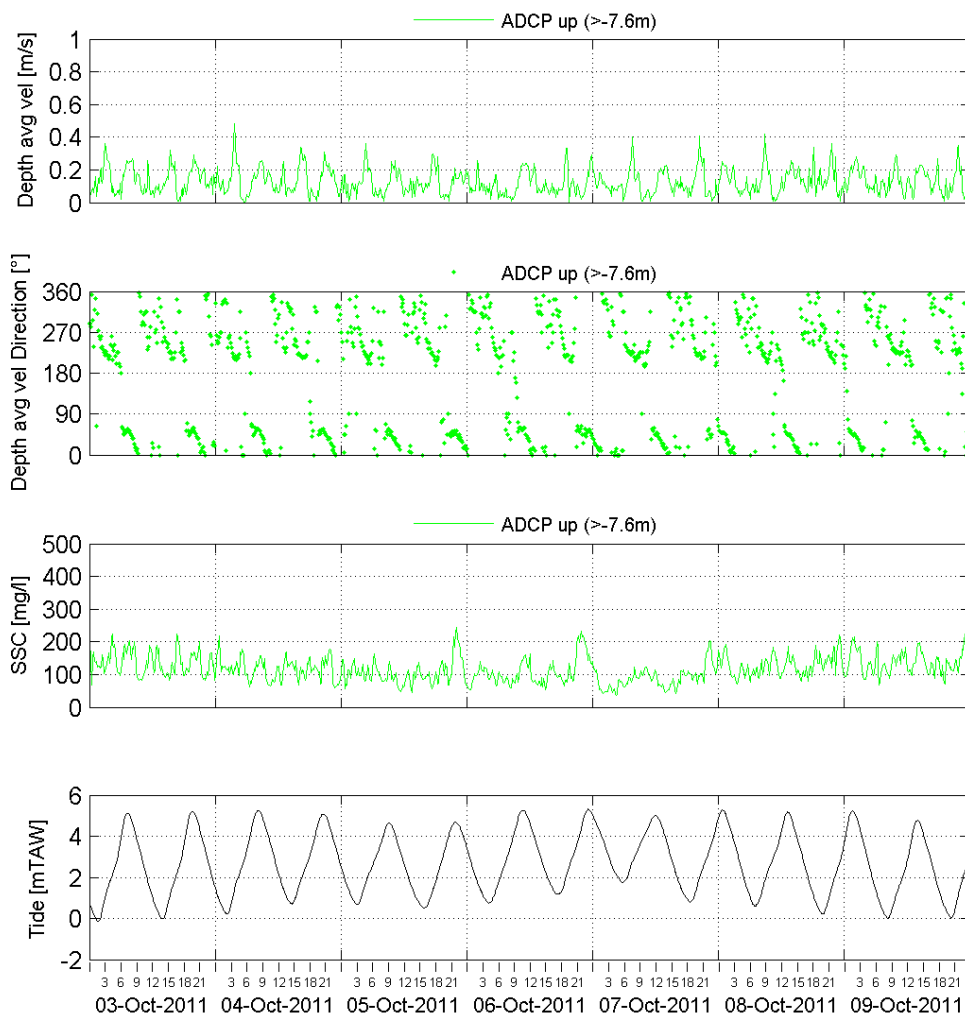
Location:

Entrance Deurganckdok

I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok

Week 40 - 2011



Velocity, direction, SSC and tide week series

Processed by:



In Association with:



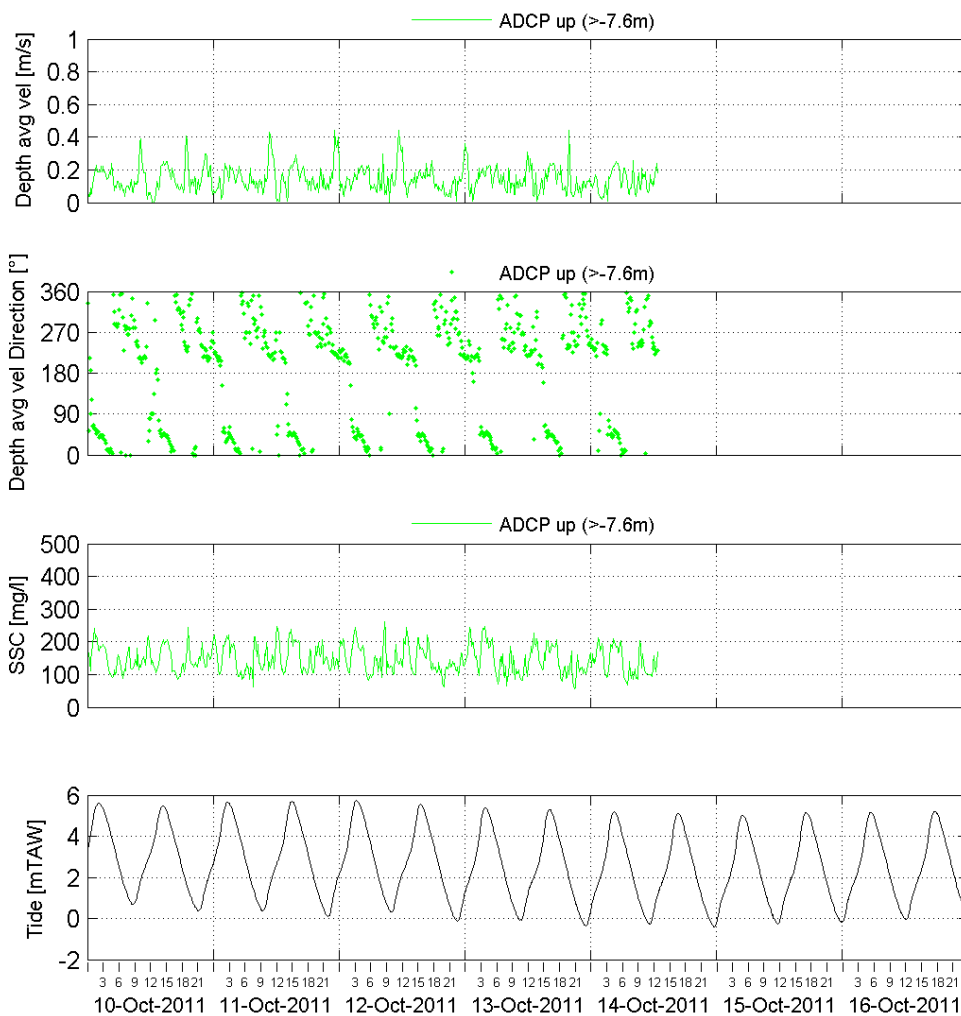
Location:

Entrance Deurganckdok

I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok

Week 41 - 2011



Velocity, direction, SSC and tide week series

Processed by:



In Association with:



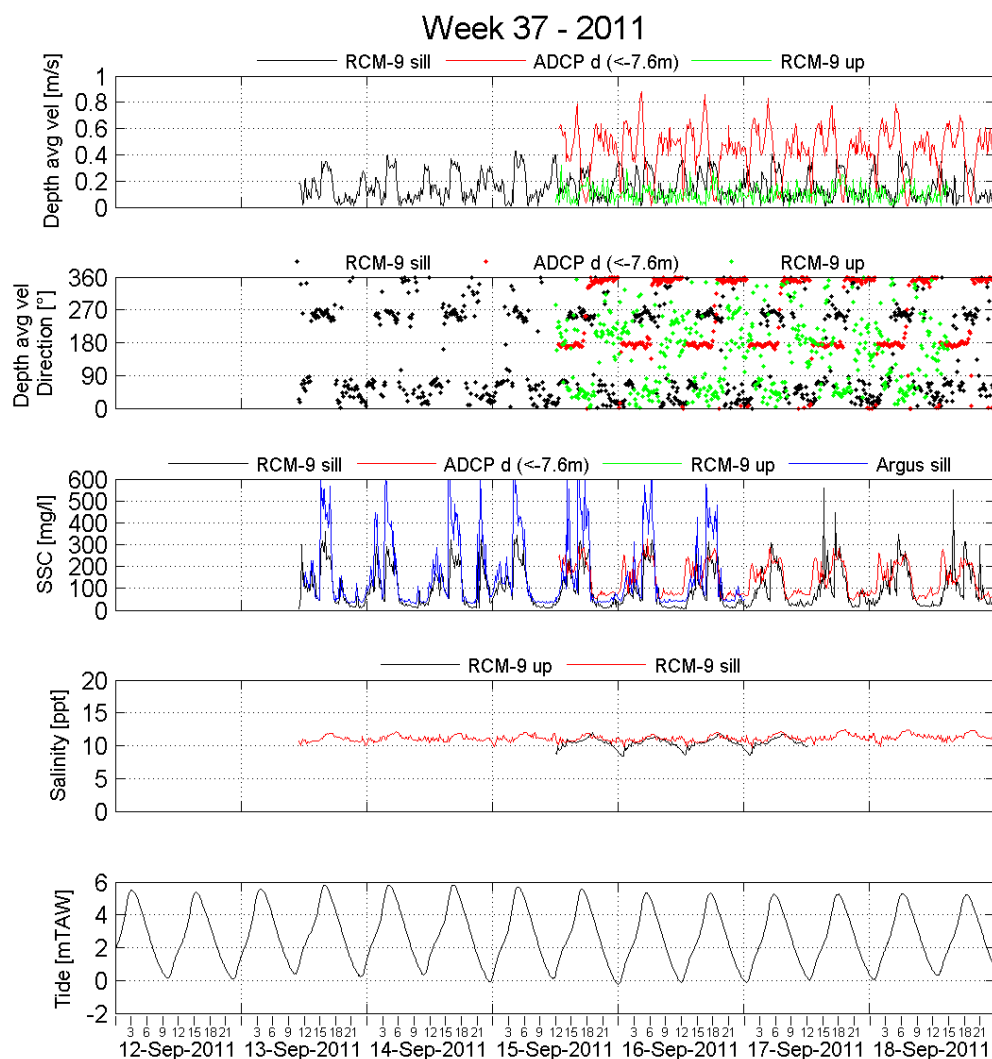
Location:

Entrance Deurganckdok

I/RA/11354/11.131/BQU

C.1.2 Frames CDW – Sill below -7.6mTAW

11354 Evaluatie externe effecten aanslibbing Deurganckdok



Velocity, direction, SSC, salinity
and tide week series

Processed by:



Location:

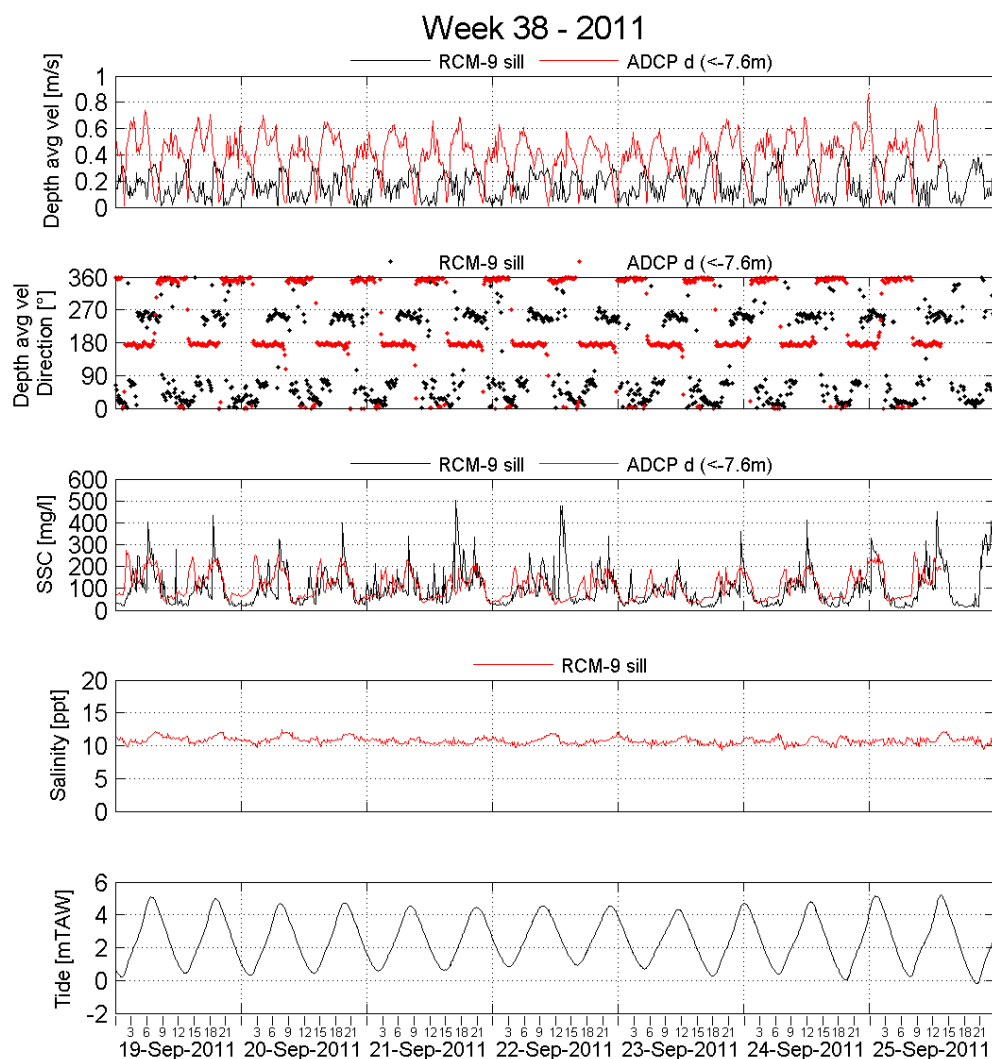
Entrance Deurganckdok

In Association with:



I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok



Velocity, direction, SSC, salinity
and tide week series

Processed by:



In Association with:

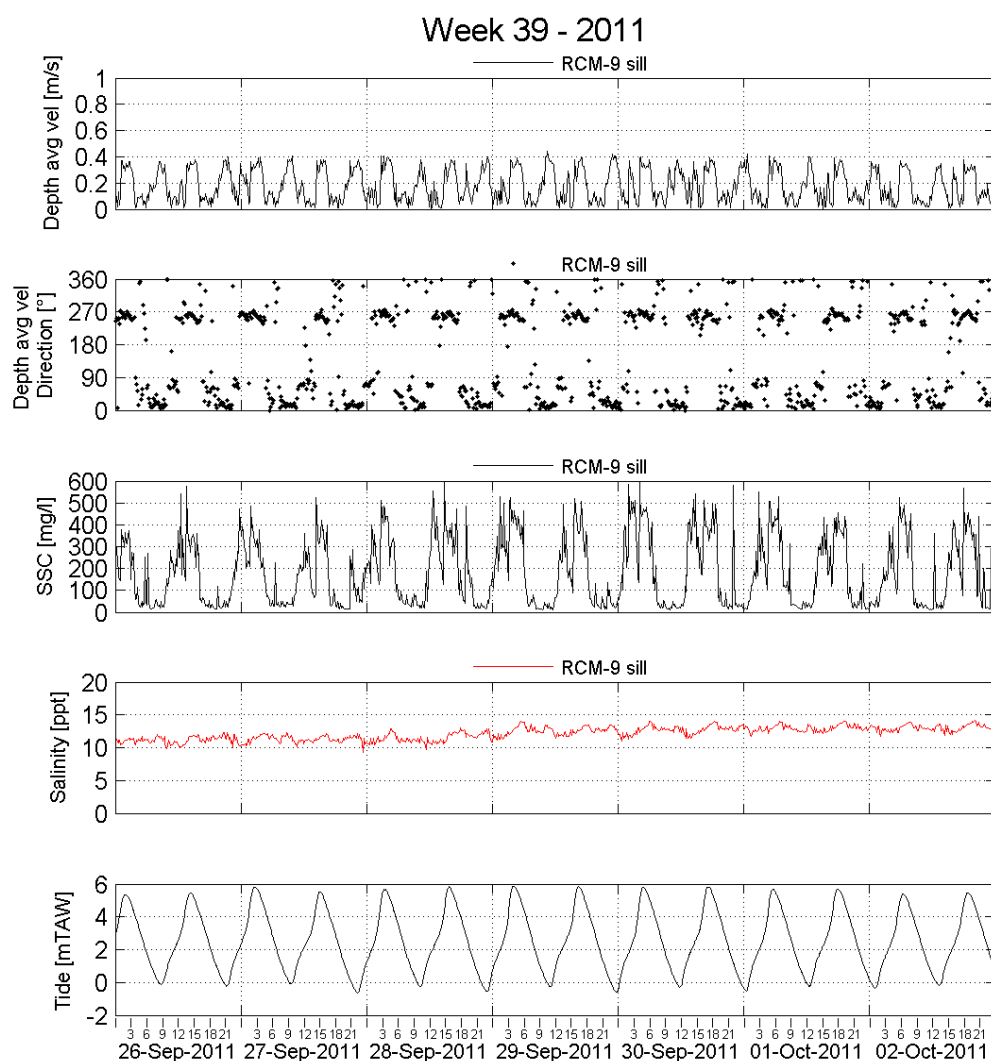


Location:

Entrance Deurganckdok

I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok



Velocity, direction, SSC, salinity
and tide week series

Processed by:



Location:

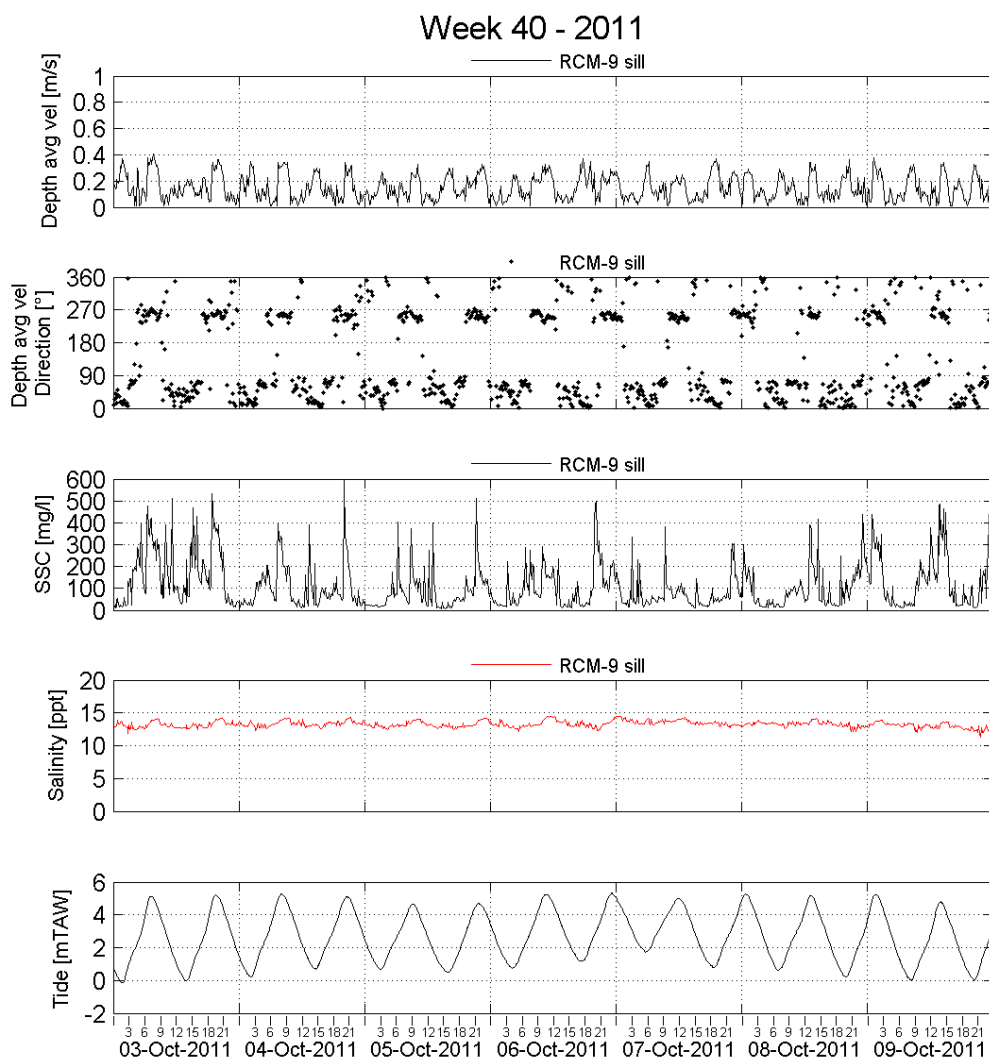
Entrance Deurganckdok

In Association with:



I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok



Velocity, direction, SSC, salinity
and tide week series

Processed by:



In Association with:

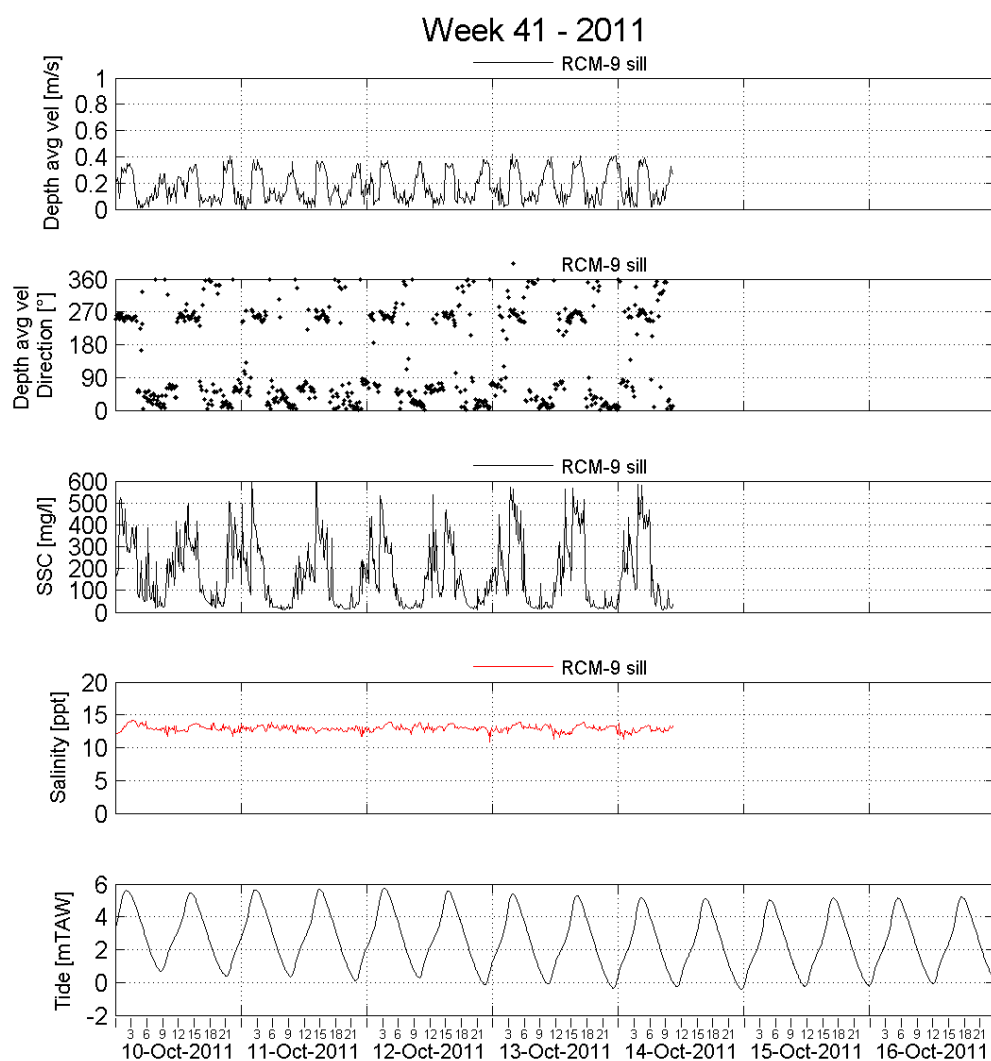


Location:

Entrance Deurganckdok

I/RA/11354/11.131/BQU

11354 Evaluatie externe effecten aanslibbing Deurganckdok



Velocity, direction, SSC, salinity
and tide week series

Processed by:



Location:

Entrance Deurganckdok

In Association with:

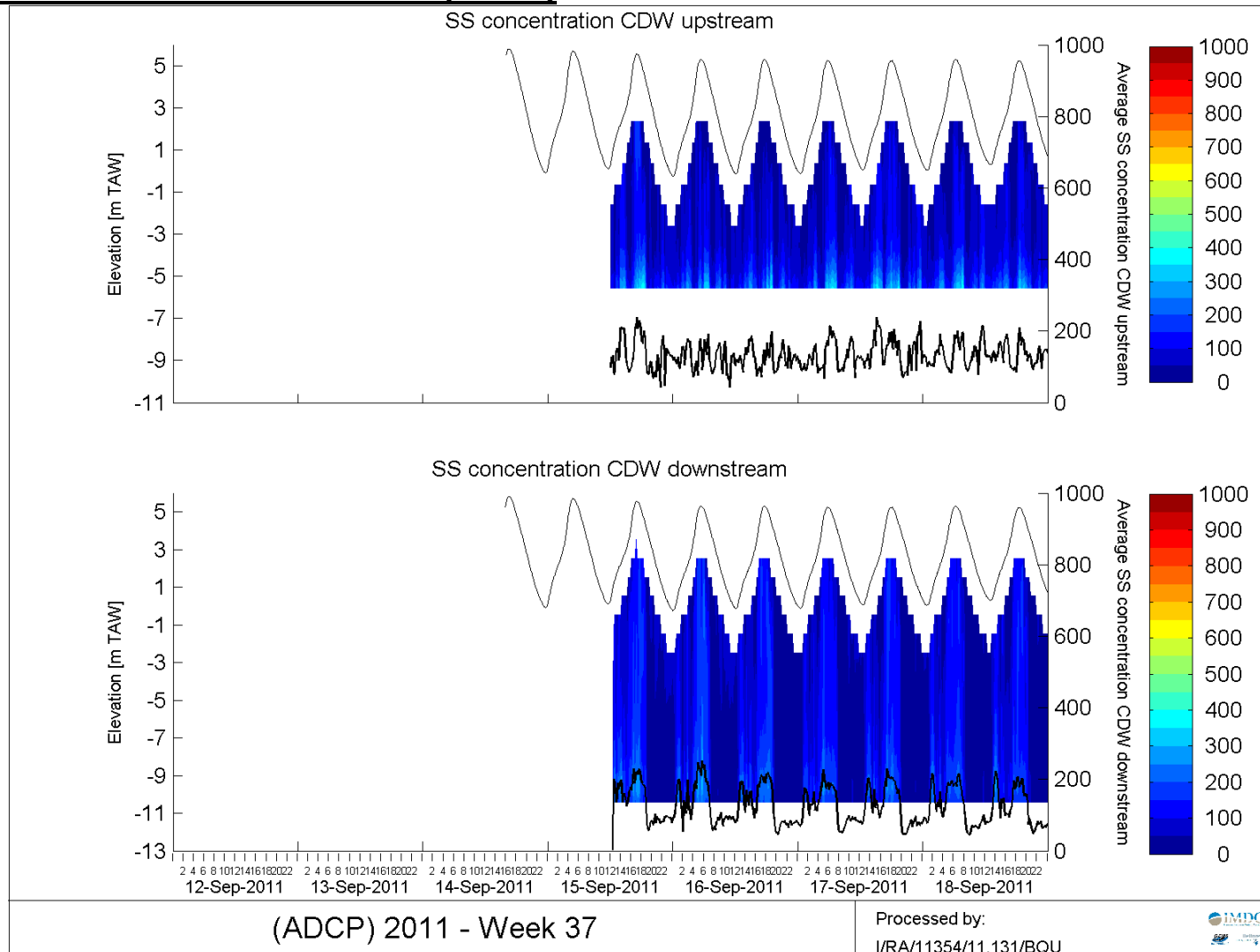


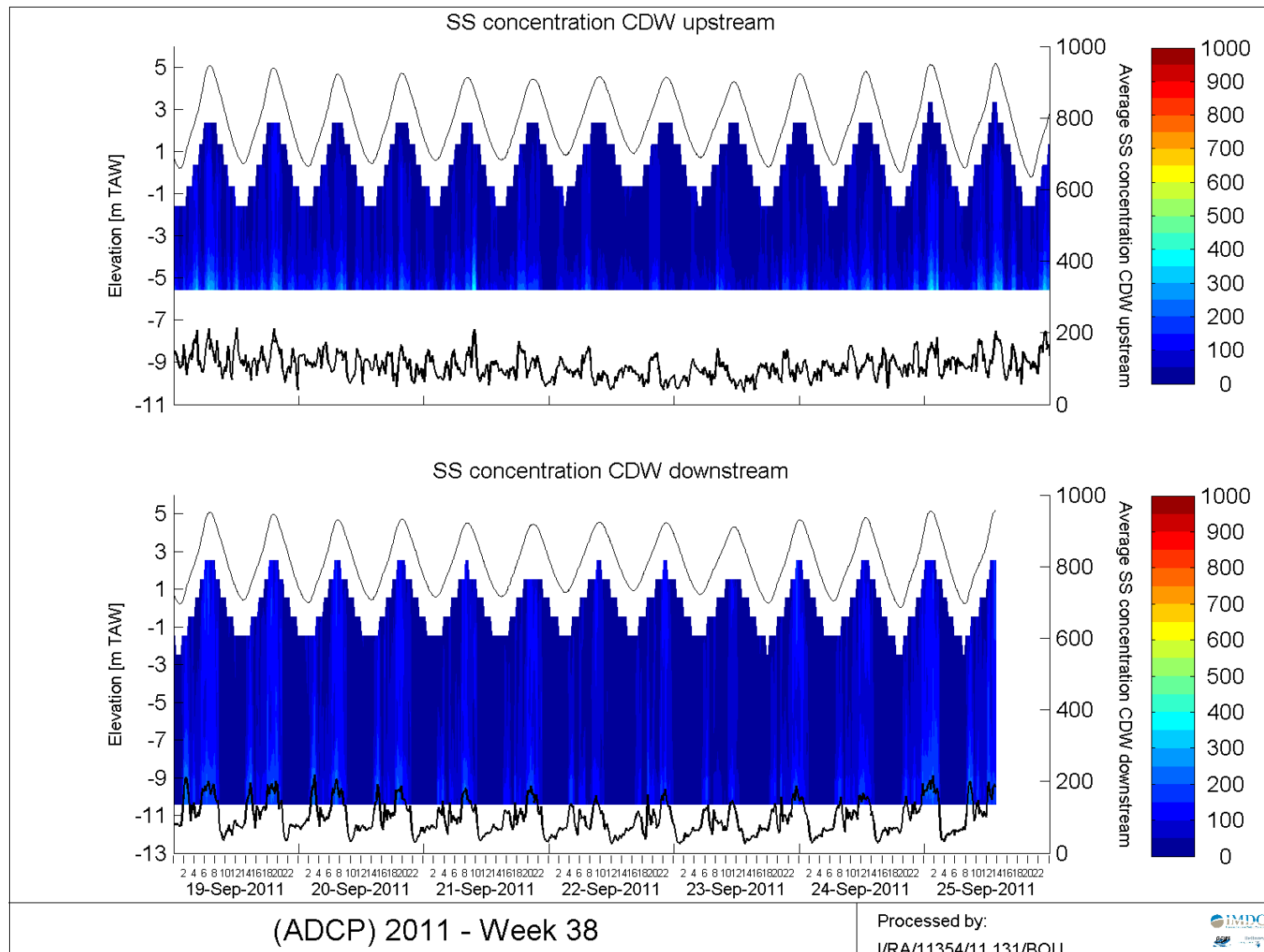
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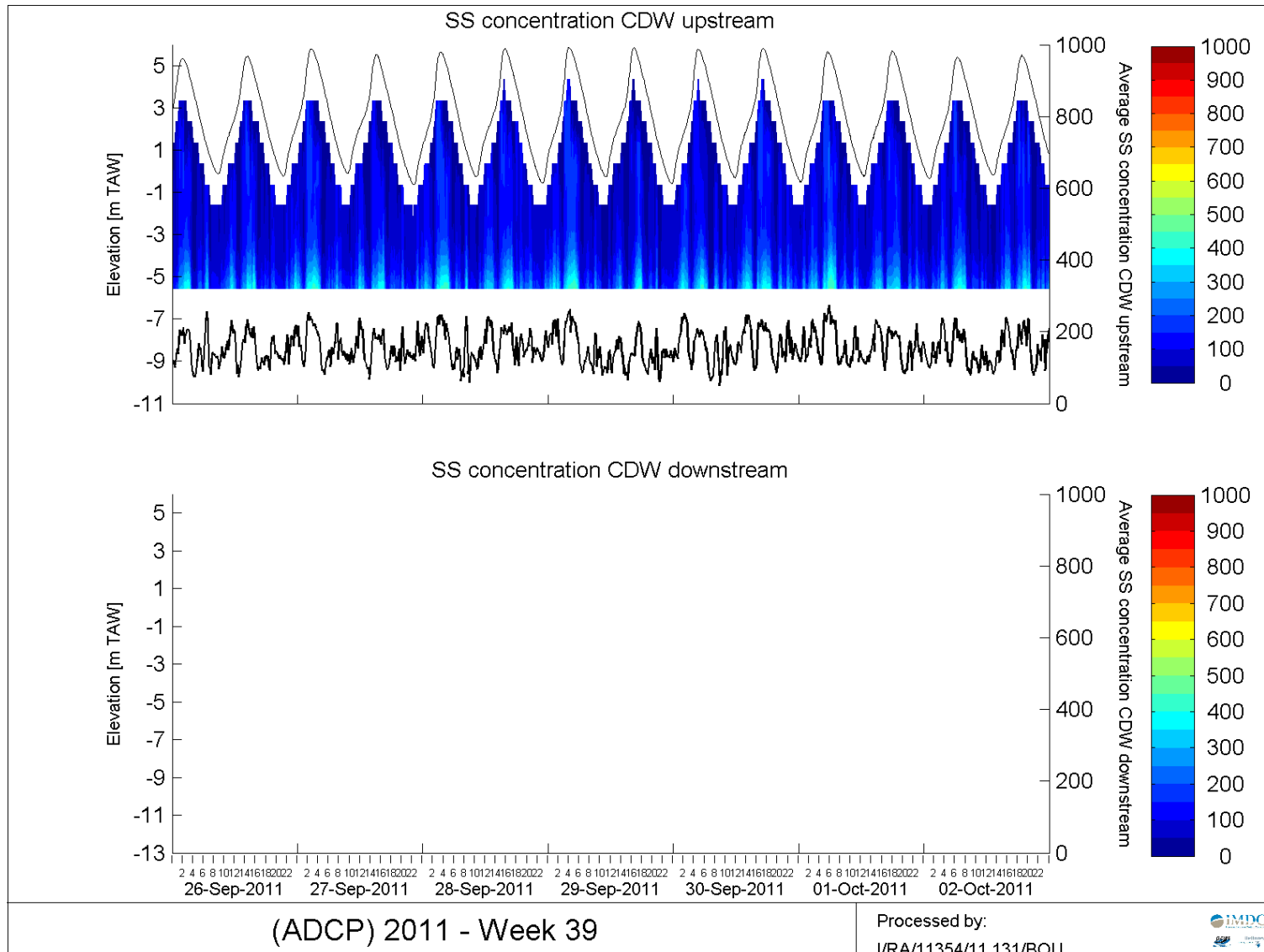
C.2 Contourplots

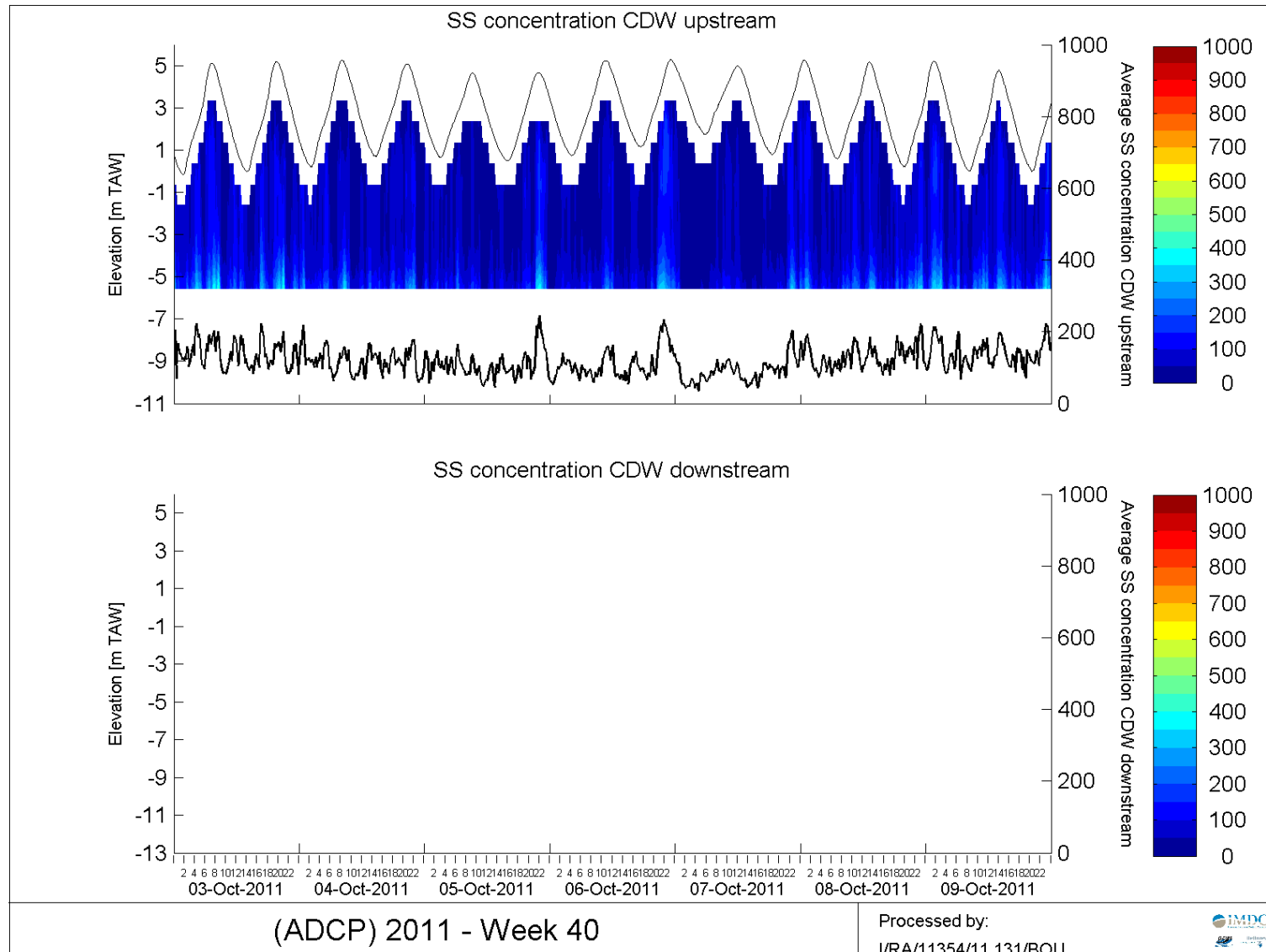
C.2.1 Suspended sediment concentration

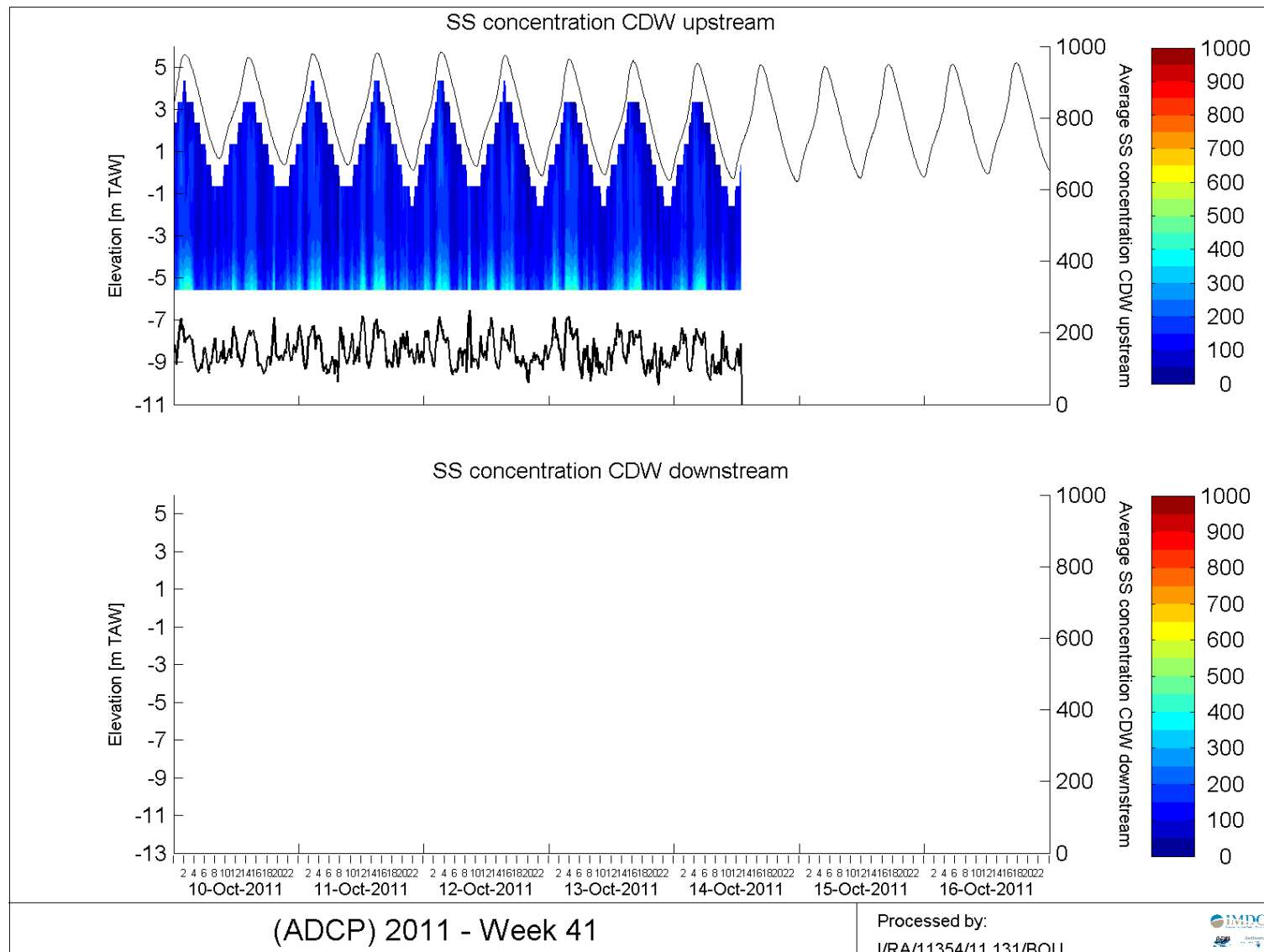
CDW upstream and CDW downstream (ADCP)



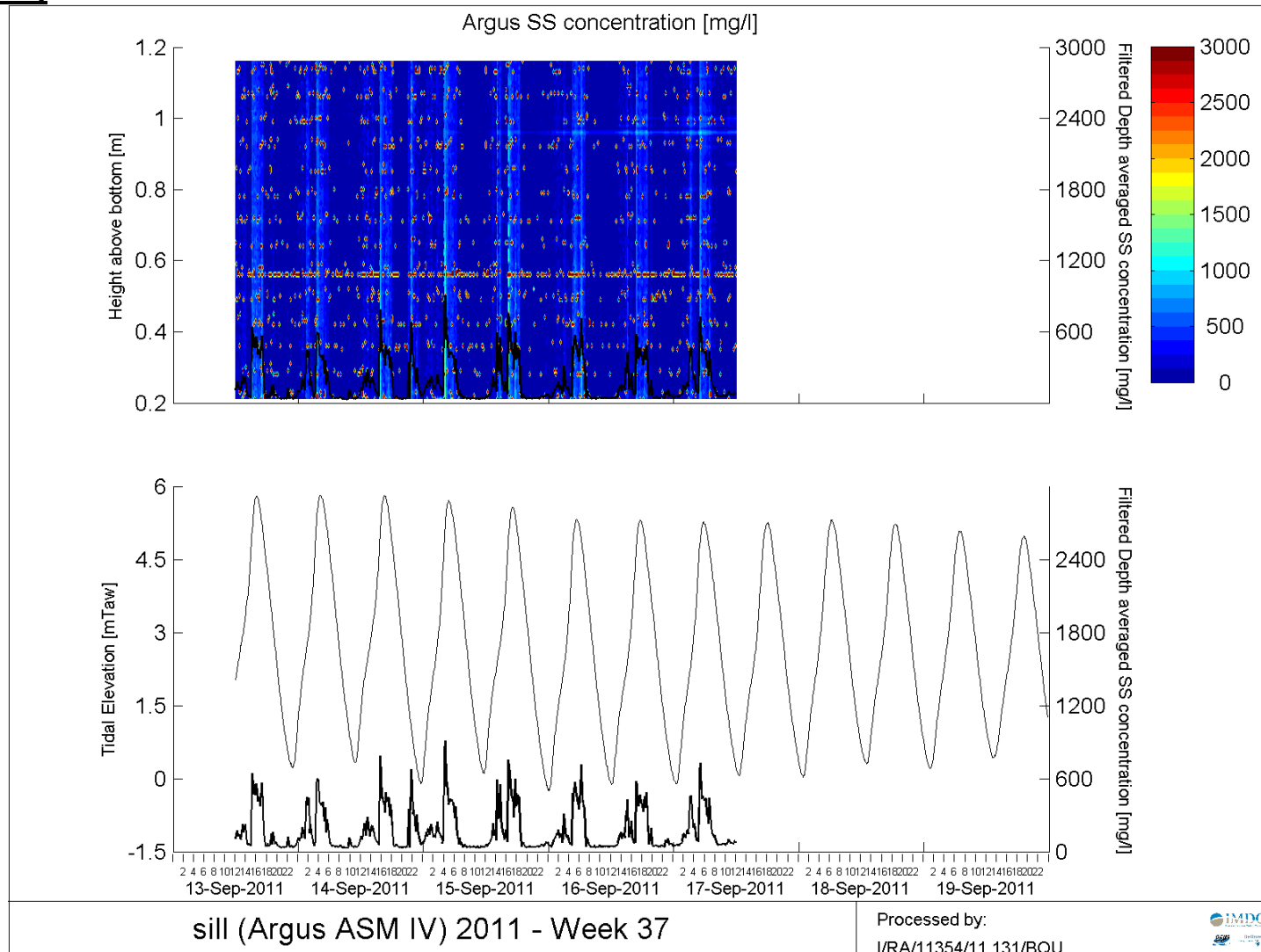






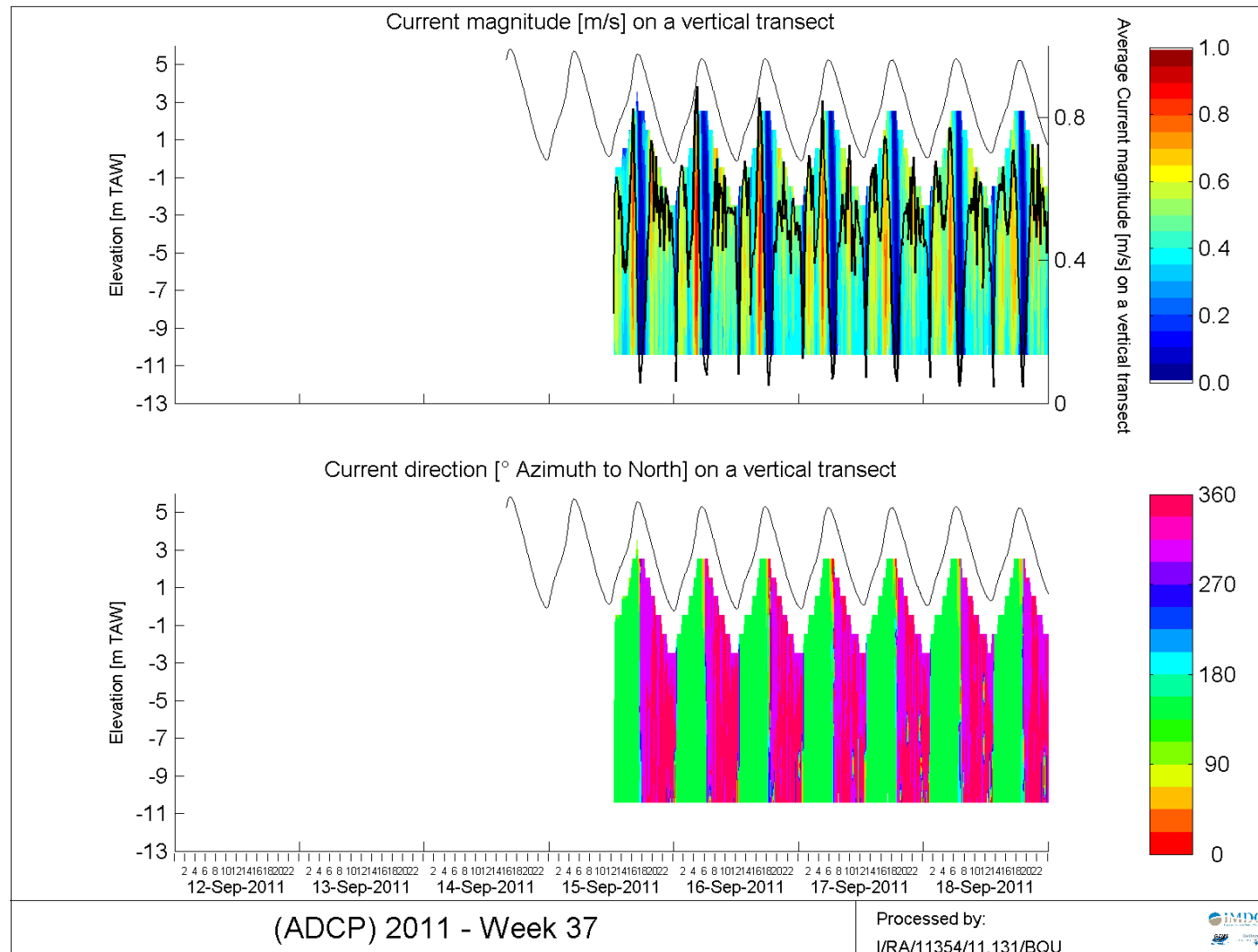


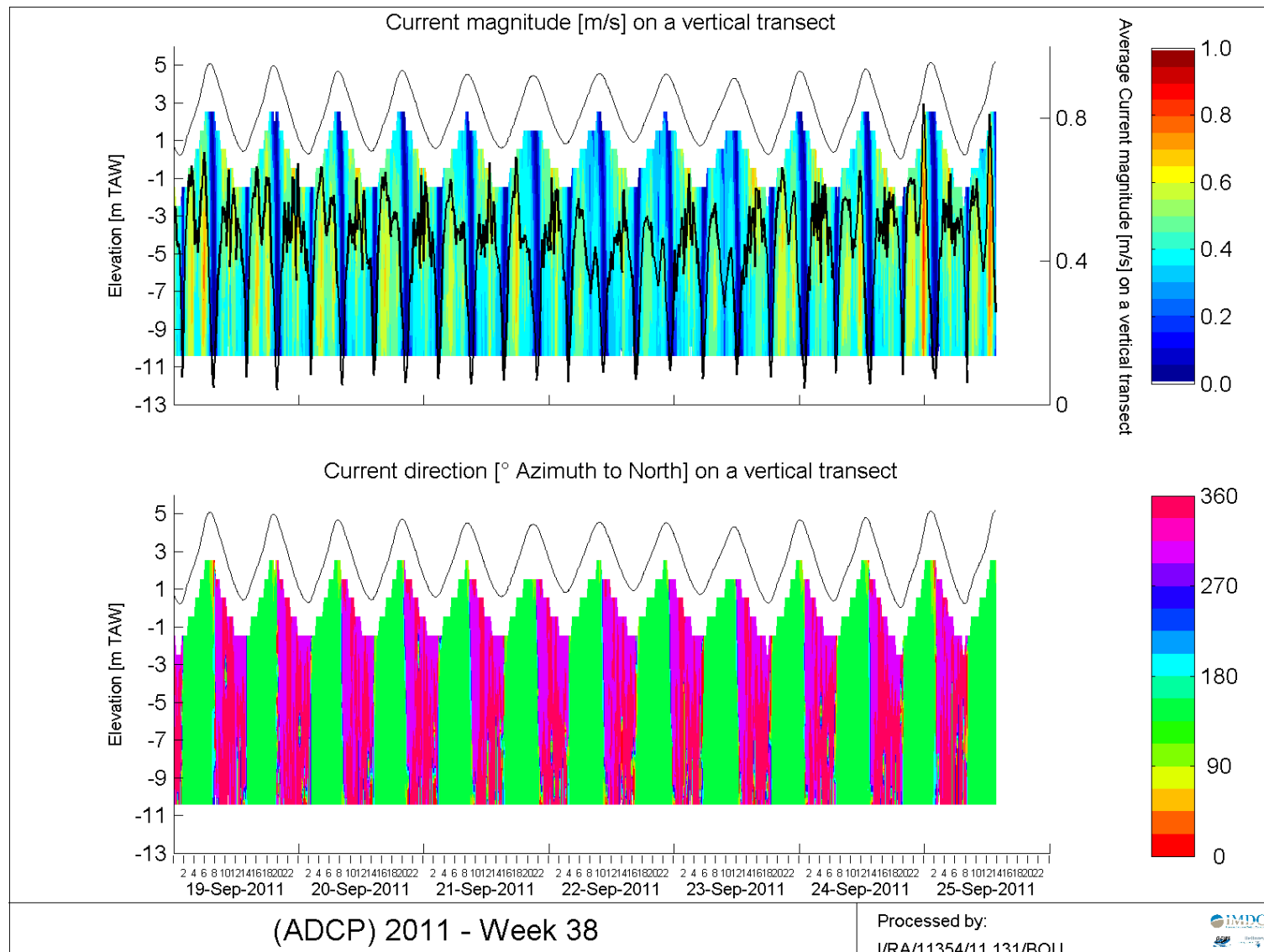
SILL (Argus)



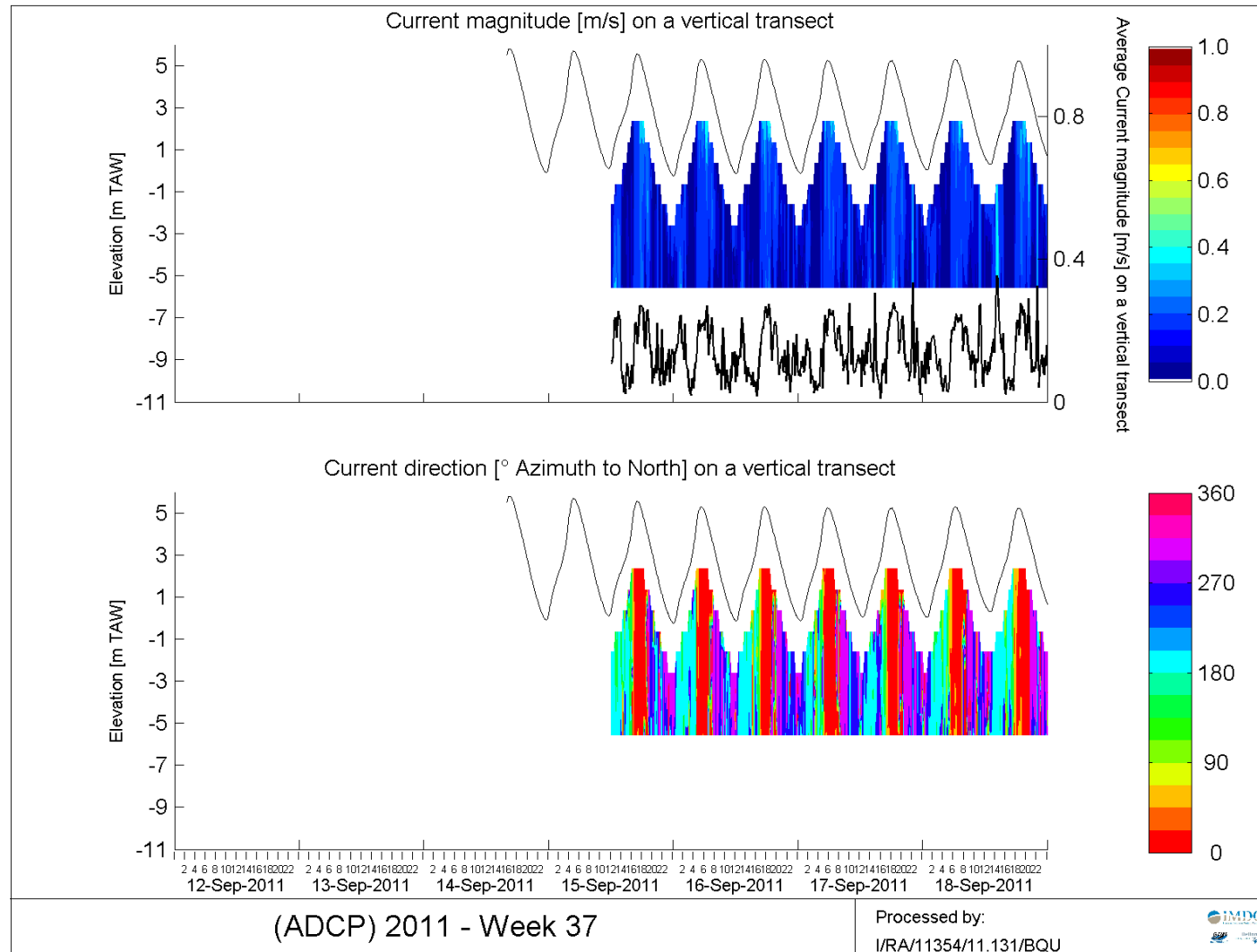
C.2.2 Current direction and current magnitude plots

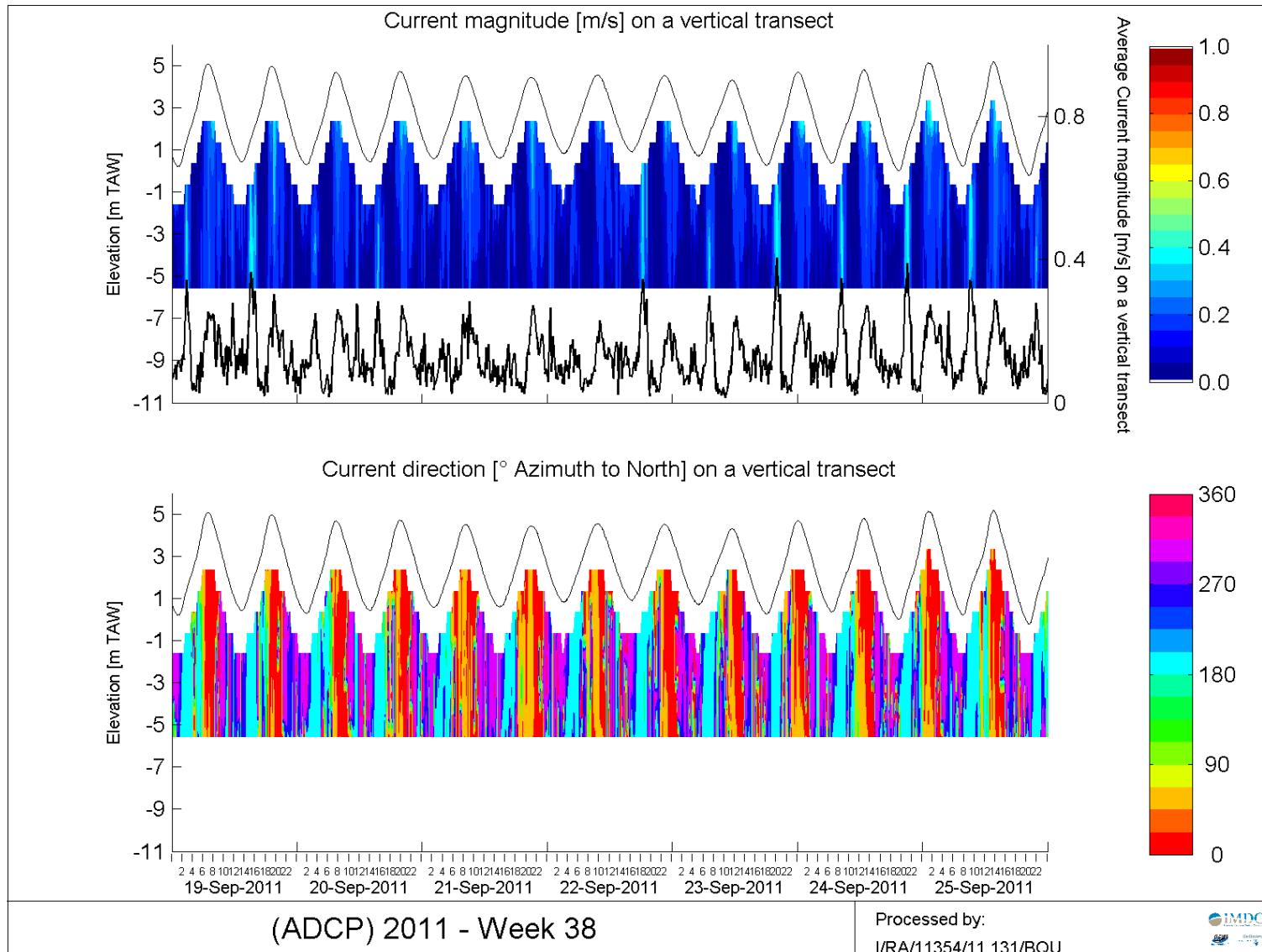
CDW downstream

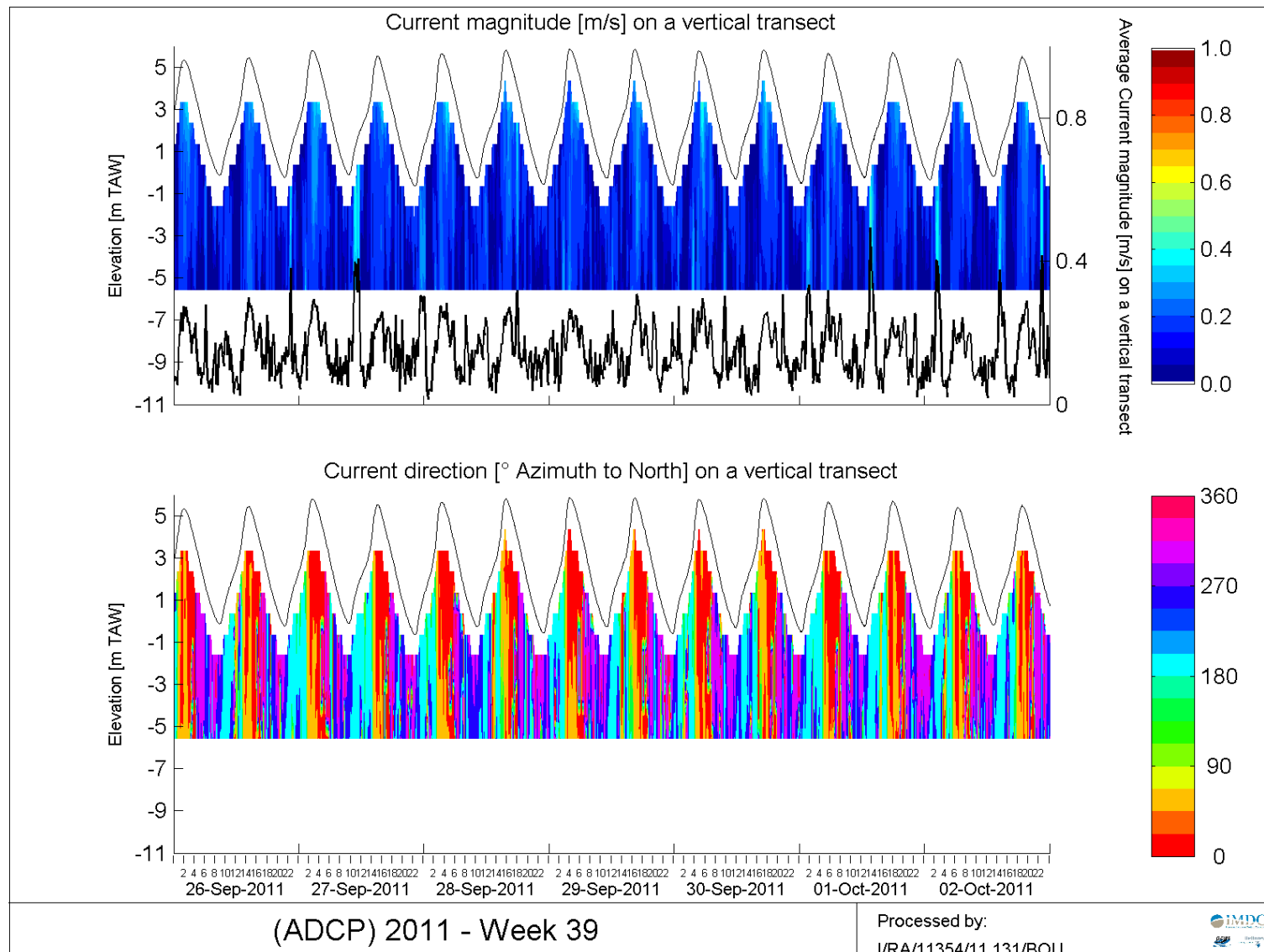


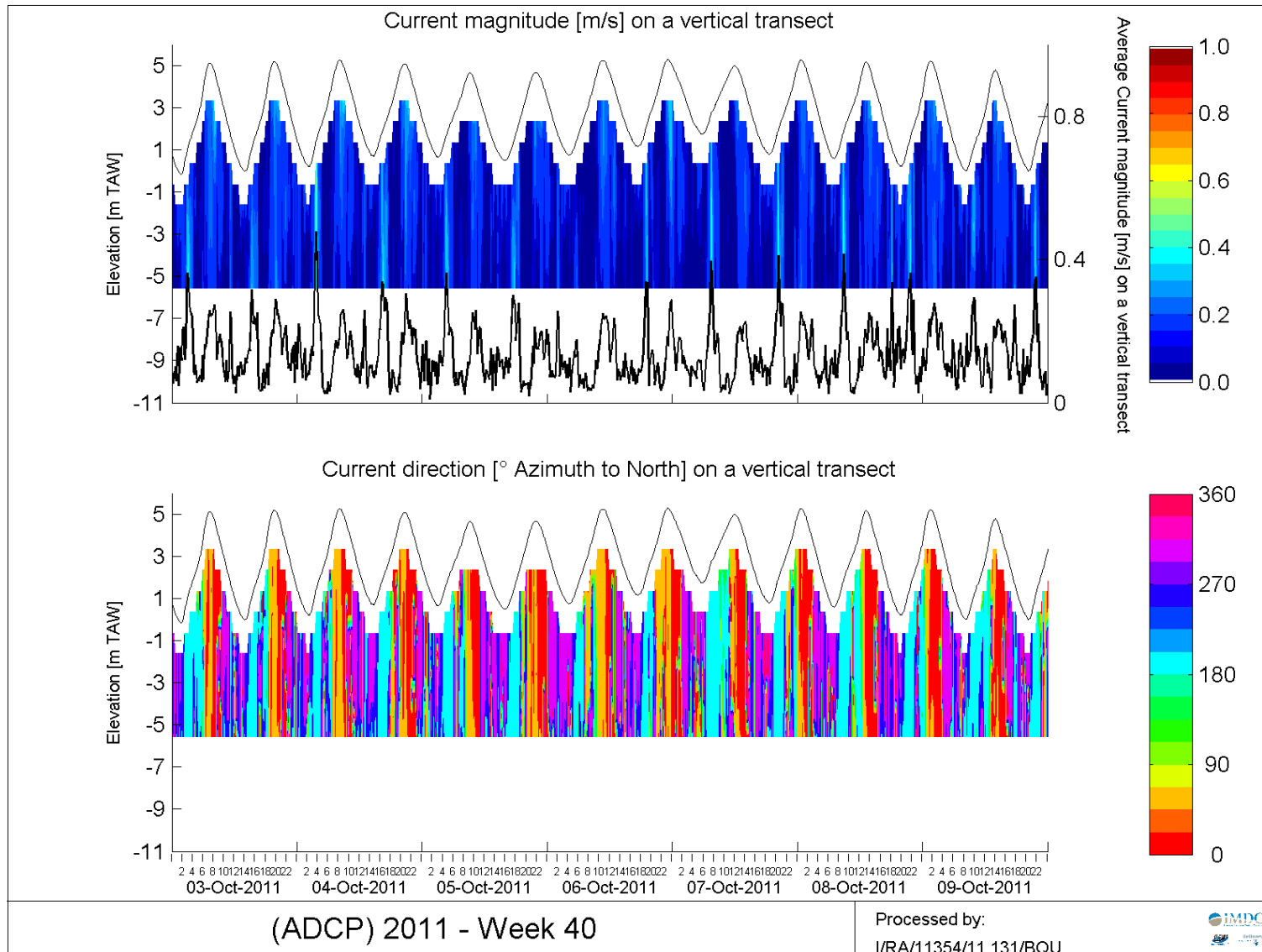


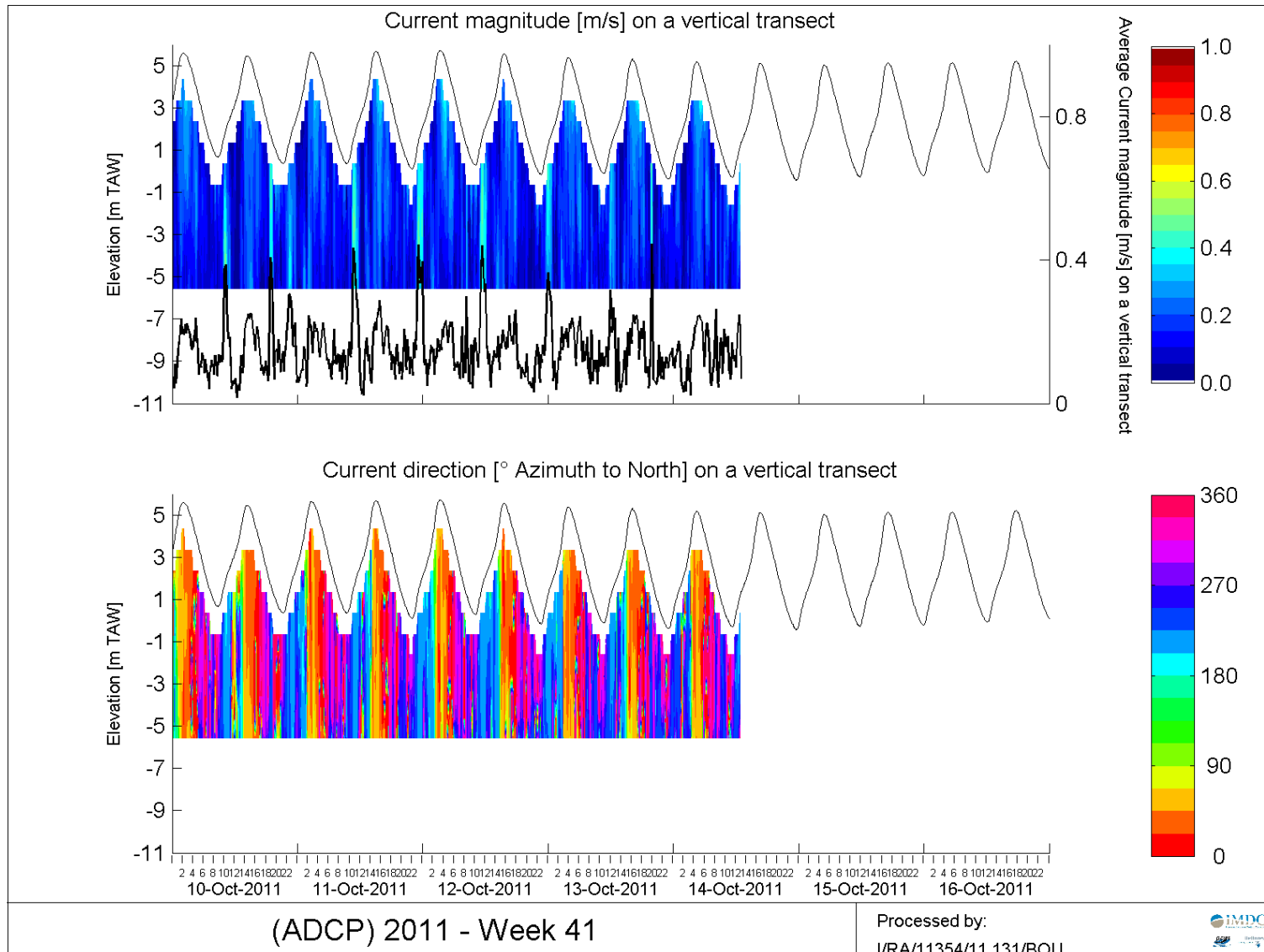
CDW upstream











C.3 Tables

C.3.1 CDW downstream

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [I]	Duration [HH:MM]	Depth averaged from 0.8m above bottom till water level			Depth averaged from 0.8m above bottom till -7.6mTAW			Depth averaged from -7.6mTAW till water level		
					Velocity [m/s]	Direction [°]	SSC [mg/l]	Velocity [m/s]	Direction [°]	SSC [mg/l]	Velocity [m/s]	Direction [°]	SSC [mg/l]
20110915	HW to LW	5.82	1.13	6:49	0.45	347	113	0.47	348	114	0.41	346	112
20110916	LW to HW	5.56	1.08	5:30	0.50	175	150	0.50	177	134	0.50	173	180
20110916	HW to LW	5.43	1.06	6:30	0.43	347	115	0.45	349	115	0.40	350	119
20110916	LW to HW	5.43	1.06	5:40	0.51	175	149	0.51	176	133	0.51	173	179
20110917	HW to LW	5.42	1.05	6:49	0.41	350	104	0.43	351	101	0.37	345	114
20110917	LW to HW	5.36	1.04	5:10	0.53	175	143	0.53	175	128	0.52	173	173
20110917	HW to LW	5.2	1.01	7:00	0.41	351	105	0.43	350	102	0.38	348	115
20110917	LW to HW	5.2	1.01	5:30	0.50	176	153	0.51	177	138	0.50	172	184
20110918	HW to LW	5.22	1.02	6:40	0.42	349	98	0.44	348	96	0.38	353	107
20110918	LW to HW	5.27	1.02	5:30	0.52	174	150	0.53	176	135	0.52	173	178
20110918	HW to LW	4.99	0.97	6:40	0.41	353	99	0.43	353	96	0.37	349	110
20110918	LW to HW	4.92	0.96	5:30	0.49	175	144	0.49	176	128	0.50	175	173
20110919	HW to LW	5.02	0.98	6:40	0.43	348	98	0.45	347	97	0.39	354	105
20110919	LW to HW	4.87	0.95	5:40	0.49	174	142	0.49	174	126	0.49	171	172
20110919	HW to LW	4.65	0.9	6:30	0.40	350	94	0.42	352	92	0.37	349	102

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [1]	Duration [HH:MM]	Depth averaged from 0.8m above bottom till water level			Depth averaged from 0.8m above bottom till -7.6mTAW			Depth averaged from -7.6mTAW till water level		
20110919	LW to HW	4.54	0.88	5:49	0.46	175	134	0.46	173	120	0.47	178	161
20110920	HW to LW	4.68	0.91	6:40	0.41	349	93	0.43	347	91	0.36	354	99
20110920	LW to HW	4.4	0.86	5:40	0.47	174	135	0.46	173	120	0.48	175	162
20110920	HW to LW	4.24	0.82	6:19	0.40	346	86	0.43	343	85	0.35	357	89
20110920	LW to HW	4.26	0.83	5:49	0.45	172	123	0.44	171	110	0.46	176	148
20110921	HW to LW	4.14	0.8	6:40	0.38	346	82	0.40	342	81	0.34	356	86
20110921	LW to HW	3.93	0.77	6:10	0.42	175	111	0.40	172	97	0.45	177	136
20110921	HW to LW	3.91	0.76	6:19	0.39	346	77	0.42	343	78	0.34	358	77
20110921	LW to HW	3.85	0.75	6:10	0.40	172	114	0.40	170	102	0.42	175	136
20110922	HW to LW	3.62	0.7	6:10	0.39	346	75	0.41	344	74	0.35	357	78
20110922	LW to HW	3.72	0.72	6:30	0.38	174	101	0.37	172	91	0.40	176	119
20110922	HW to LW	3.64	0.71	6:40	0.36	346	63	0.39	343	63	0.32	358	64
20110922	LW to HW	3.64	0.71	6:10	0.36	172	103	0.35	169	93	0.39	174	124
20110923	HW to LW	3.83	0.74	6:30	0.38	347	66	0.41	345	66	0.34	358	67
20110923	LW to HW	3.61	0.7	6:30	0.36	173	96	0.35	172	88	0.39	176	111
20110923	HW to LW	4.08	0.79	6:40	0.40	347	61	0.43	344	61	0.36	357	61
20110924	LW to HW	4.44	0.86	6:00	0.44	174	116	0.44	172	105	0.47	177	137
20110924	HW to LW	4.32	0.84	6:30	0.40	350	73	0.42	346	72	0.36	353	76
20110924	LW to HW	4.42	0.86	6:10	0.44	172	119	0.43	171	106	0.47	176	143
20110924	HW to LW	4.76	0.93	6:30	0.41	346	75	0.43	344	75	0.37	353	76
20110925	LW to HW	5.12	1	5:49	0.50	175	133	0.50	174	117	0.51	176	164

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [I]	Duration [HH:MM]	Depth averaged from 0.8m above bottom till water level			Depth averaged from 0.8m above bottom till -7.6mTAW			Depth averaged from -7.6mTAW till water level		
20110925	HW to LW	4.92	0.96	6:40	0.40	353	88	0.42	353	84	0.37	349	100

Overview

Tidal Type	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [I]	Duration [HH:MM]	Depth averaged from 0.8m above bottom till water level			Depth averaged from 0.8m above bottom till -7.6mTAW			Depth averaged from -7.6mTAW till water level		
					Velocity [m/s]	Direction [°]	SSC [mg/l]	Velocity [m/s]	Direction [°]	SSC [mg/l]	Velocity [m/s]	Direction [°]	SSC [mg/l]
Neap	HW to LW	4.17	0.81	6:30	0.39	347	77	0.35	356	79	0.42	345	76
	LW to HW	4.15	0.81	6:03	0.43	173	118	0.45	175	141	0.42	172	105
Average	HW to LW	5.07	0.99	6:43	0.41	351	98	0.37	351	107	0.43	350	95
	LW to HW	5.17	1.01	5:30	0.51	175	145	0.51	174	174	0.51	176	129
Spring	HW to LW	5.56	1.08	6:43	0.43	348	111	0.39	347	115	0.45	350	110
	LW to HW	5.50	1.07	5:34	0.50	175	149	0.50	173	179	0.50	177	134

Neap tide: tidal coefficient < 0.95; Average tide: 0.95 <= tidal coefficient <= 1.05; Spring tide > 1.05

C.3.2 CDW upstream

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [/]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW (ADCP))			Averaged values at 0.8m above the bottom (RCM-9)		
					Velocity [m/s]	Direction [°]	SSC [mg/l]	Velocity [m/s]	Direction [°]	Salinity [psu]
20110915	HW to LW	5.81	1.13	6:49	0.14	319	131	-	-	-
20110916	LW to HW	5.56	1.08	5:30	0.13	231	125	0.10	300	10.0
20110916	HW to LW	5.43	1.06	6:40	0.13	326	118	0.09	128	10.6
20110916	LW to HW	5.43	1.06	5:30	0.11	219	123	0.08	56	10.0
20110917	HW to LW	5.41	1.05	6:49	0.14	321	124	0.11	128	10.7
20110917	LW to HW	5.35	1.04	5:10	0.10	219	114	0.09	73	10.1
20110917	HW to LW	5.19	1.01	7:00	0.15	328	139	0.10	119	10.9
20110917	LW to HW	5.18	1.01	5:30	0.12	217	155	0.11	143	-
20110918	HW to LW	5.21	1.01	6:40	0.15	331	134	0.12	106	-
20110918	LW to HW	5.26	1.02	5:30	0.11	205	125	0.08	86	-
20110918	HW to LW	4.98	0.97	6:40	0.15	340	144	0.11	79	-
20110918	LW to HW	4.92	0.96	5:30	0.13	213	134	-	-	-
20110919	HW to LW	5.02	0.98	6:40	0.15	344	136	-	-	-
20110919	LW to HW	4.87	0.95	5:40	0.13	217	134	-	-	-
20110919	HW to LW	4.65	0.9	6:30	0.15	335	131	-	-	-
20110919	LW to HW	4.54	0.88	5:49	0.14	227	120	-	-	-
20110920	HW to LW	4.67	0.91	6:40	0.12	339	124	-	-	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [/]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW (ADCP))			Averaged values at 0.8m above the bottom (RCM-9)		
20110920	LW to HW	4.4	0.86	5:40	0.10	230	123	-	-	-
20110920	HW to LW	4.25	0.83	6:40	0.14	348	111	-	-	-
20110920	LW to HW	4.27	0.83	5:49	0.11	344	113	-	-	-
20110921	HW to LW	4.13	0.8	6:19	0.13	338	104	-	-	-
20110921	LW to HW	3.94	0.77	6:10	0.10	296	99	-	-	-
20110921	HW to LW	3.91	0.76	6:19	0.12	345	110	-	-	-
20110921	LW to HW	3.85	0.75	6:10	0.09	326	107	-	-	-
20110922	HW to LW	3.62	0.7	6:19	0.14	349	91	-	-	-
20110922	LW to HW	3.71	0.72	6:19	0.08	300	97	-	-	-
20110922	HW to LW	3.63	0.71	6:40	0.13	356	81	-	-	-
20110922	LW to HW	3.63	0.71	6:10	0.12	256	87	-	-	-
20110923	HW to LW	3.82	0.74	6:30	0.11	348	76	-	-	-
20110923	LW to HW	3.6	0.7	6:30	0.09	263	92	-	-	-
20110923	HW to LW	4.07	0.79	6:40	0.13	1	74	-	-	-
20110924	LW to HW	4.44	0.86	6:00	0.14	303	98	-	-	-
20110924	HW to LW	4.32	0.84	6:30	0.13	347	94	-	-	-
20110924	LW to HW	4.43	0.86	6:10	0.13	235	108	-	-	-
20110924	HW to LW	4.76	0.93	6:40	0.12	347	108	-	-	-
20110925	LW to HW	5.11	0.99	5:40	0.14	242	113	-	-	-
20110925	HW to LW	4.92	0.96	6:40	0.14	337	119	-	-	-
20110925	LW to HW	4.97	0.97	5:49	0.15	216	125	-	-	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [/]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW (ADCP))			Averaged values at 0.8m above the bottom (RCM-9)		
20110925	HW to LW	5.4	1.05	6:49	0.13	348	122	-	-	-
20110926	LW to HW	5.54	1.08	5:30	0.13	229	145	-	-	-
20110926	HW to LW	5.47	1.06	6:49	0.14	333	144	-	-	-
20110926	LW to HW	5.58	1.09	5:40	0.13	251	153	-	-	-
20110926	HW to LW	5.69	1.11	6:49	0.15	336	143	-	-	-
20110927	LW to HW	6.04	1.18	5:19	0.14	224	171	-	-	-
20110927	HW to LW	5.89	1.15	7:00	0.15	344	156	-	-	-
20110927	LW to HW	5.6	1.09	5:30	0.18	221	149	-	-	-
20110927	HW to LW	6.14	1.19	7:12	0.14	333	144	-	-	-
20110928	LW to HW	6.28	1.22	5:00	0.16	223	173	-	-	-
20110928	HW to LW	5.9	1.15	6:49	0.15	330	147	-	-	-
20110928	LW to HW	6.04	1.18	5:30	0.13	237	163	-	-	-
20110928	HW to LW	6.35	1.24	7:19	0.14	337	160	-	-	-
20110929	LW to HW	6.43	1.25	5:00	0.14	246	181	-	-	-
20110929	HW to LW	6.14	1.19	7:00	0.14	343	146	-	-	-
20110929	LW to HW	6.11	1.19	5:30	0.13	224	124	-	-	-
20110929	HW to LW	6.43	1.25	7:10	0.15	345	135	-	-	-
20110930	LW to HW	6.37	1.24	5:00	0.13	226	169	-	-	-
20110930	HW to LW	6.1	1.19	7:10	0.15	338	138	-	-	-
20110930	LW to HW	6.13	1.19	5:19	0.11	236	178	-	-	-
20111001	HW to LW	6.29	1.22	7:19	0.14	334	157	-	-	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [/]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW (ADCP))			Averaged values at 0.8m above the bottom (RCM-9)		
20111001	LW to HW	6.16	1.2	5:00	0.17	231	174	-	-	-
20111001	HW to LW	5.9	1.15	7:00	0.14	338	161	-	-	-
20111001	LW to HW	5.92	1.15	5:30	0.17	226	164	-	-	-
20111002	HW to LW	6.05	1.18	7:00	0.13	335	146	-	-	-
20111002	LW to HW	5.75	1.12	5:30	0.15	234	160	-	-	-
20111002	HW to LW	5.59	1.09	6:49	0.12	340	129	-	-	-
20111002	LW to HW	5.69	1.11	5:19	0.14	237	157	-	-	-
20111003	HW to LW	5.64	1.1	7:00	0.16	337	152	-	-	-
20111003	LW to HW	5.25	1.02	5:30	0.16	227	148	-	-	-
20111003	HW to LW	5.13	1	6:49	0.13	338	140	-	-	-
20111003	LW to HW	5.21	1.01	5:40	0.14	248	128	-	-	-
20111004	HW to LW	4.97	0.97	6:30	0.15	348	136	-	-	-
20111004	LW to HW	5.04	0.98	6:00	0.14	257	116	-	-	-
20111004	HW to LW	4.54	0.88	6:19	0.14	340	113	-	-	-
20111004	LW to HW	4.35	0.85	6:10	0.13	260	115	-	-	-
20111005	HW to LW	4.4	0.86	6:19	0.13	354	112	-	-	-
20111005	LW to HW	3.97	0.77	6:10	0.12	253	105	-	-	-
20111005	HW to LW	4.15	0.81	6:40	0.13	340	89	-	-	-
20111005	LW to HW	4.17	0.81	6:00	0.13	301	107	-	-	-
20111006	HW to LW	3.92	0.76	6:19	0.12	344	117	-	-	-
20111006	LW to HW	4.5	0.88	6:30	0.09	209	90	-	-	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [/]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW (ADCP))			Averaged values at 0.8m above the bottom (RCM-9)		
20111006	HW to LW	4.09	0.8	6:49	0.12	345	103	-	-	-
20111006	LW to HW	4.16	0.81	5:40	0.11	337	137	-	-	-
20111007	HW to LW	3.57	0.69	6:30	0.13	359	77	-	-	-
20111007	LW to HW	3.26	0.63	6:19	0.11	231	94	-	-	-
20111007	HW to LW	4.2	0.82	6:30	0.13	354	77	-	-	-
20111008	LW to HW	4.47	0.87	6:10	0.13	257	122	-	-	-
20111008	HW to LW	4.67	0.91	6:19	0.12	340	116	-	-	-
20111008	LW to HW	4.57	0.89	6:10	0.13	223	128	-	-	-
20111008	HW to LW	4.96	0.96	6:40	0.16	334	126	-	-	-
20111009	LW to HW	5	0.97	5:40	0.14	238	147	-	-	-
20111009	HW to LW	5.21	1.01	6:40	0.14	345	136	-	-	-
20111009	LW to HW	4.77	0.93	5:52	0.13	232	136	-	-	-
20111009	HW to LW	4.76	0.93	6:19	0.13	349	131	-	-	-
20111010	LW to HW	5.58	1.09	5:49	0.12	23	165	-	-	-
20111010	HW to LW	4.92	0.96	6:19	0.13	341	138	-	-	-
20111010	LW to HW	4.78	0.93	5:49	0.13	200	149	-	-	-
20111010	HW to LW	5.08	0.99	6:49	0.16	344	144	-	-	-
20111011	LW to HW	5.25	1.02	5:30	0.15	228	161	-	-	-
20111011	HW to LW	5.26	1.02	6:40	0.14	340	139	-	-	-
20111011	LW to HW	5.3	1.03	5:40	0.16	229	163	-	-	-
20111011	HW to LW	5.57	1.08	6:49	0.15	327	156	-	-	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [/]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW (ADCP))			Averaged values at 0.8m above the bottom (RCM-9)		
20111012	LW to HW	5.62	1.09	5:30	0.17	223	159	-	-	-
20111012	HW to LW	5.41	1.05	6:40	0.14	335	143	-	-	-
20111012	LW to HW	5.24	1.02	5:30	0.17	222	155	-	-	-
20111012	HW to LW	5.71	1.11	7:04	0.12	333	134	-	-	-
20111013	LW to HW	5.52	1.07	5:10	0.17	223	165	-	-	-
20111013	HW to LW	5.44	1.06	6:40	0.14	328	140	-	-	-
20111013	LW to HW	5.39	1.05	5:40	0.14	242	153	-	-	-
20111013	HW to LW	5.68	1.11	7:00	0.14	327	127	-	-	-
20111014	LW to HW	5.55	1.08	5:19	0.11	261	152	-	-	-
20111014	HW to LW	5.47	1.06	6:40	0.14	332	131	-	-	-

Overview

Tidal Type	Phase	Tidal amplitude [m]	Tidal coefficient [I]	Duration [HH:MM]	Depth averaged from 2.5m above bottom till water level (above - 7.6m TAW; ADCP)			Averaged values at 0.8m above the bottom (RCM-9)		
					Velocity [m/s]	Direction [°]	SSC [mg/l]	Velocity [m/s]	Direction [°]	Salinity [psu]
Neap	HW to LW	4.21	0.82	6:30	0.13	345	102	-	-	-
	LW to HW	4.22	0.82	6:04	0.12	260	112	-	-	-
Average	HW to LW	5.10	0.99	6:41	0.14	340	135	0.11	101	10.9
	LW to HW	5.18	1.01	5:36	0.14	229	138	0.10	100	10.1
Spring	HW to LW	5.81	1.13	6:57	0.14	334	142	0.11	153	10.7
	LW to HW	5.84	1.14	5:22	0.14	233	157	0.09	358	10.0

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End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [I]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
					Velocity [m/s]	Direction [°]	SSC [mg/l]	Salinity [psu]	SSC [mg/l]
20110913	HW to LW	5.58	1.08	7:00	0.13	13	91	11.2	136
20110914	LW to HW	5.60	1.09	5:19	0.17	23	114	10.9	201
20110914	HW to LW	5.49	1.07	6:40	0.13	336	77	11.3	112
20110914	LW to HW	5.48	1.07	5:40	0.17	21	117	11.0	196
20110914	HW to LW	5.90	1.15	7:00	0.18	339	122	11.2	191
20110915	LW to HW	5.79	1.13	5:19	0.17	37	129	10.9	224
20110915	HW to LW	5.57	1.08	6:40	0.18	6	79	11.4	125
20110915	LW to HW	5.43	1.06	5:40	0.19	342	132	10.9	231
20110916	HW to LW	5.79	1.13	6:49	0.15	347	76	11.2	126
20110916	LW to HW	5.54	1.08	5:19	0.20	343	92	10.8	172
20110916	HW to LW	5.44	1.06	6:40	0.17	342	87	11.2	139
20110916	LW to HW	5.43	1.06	5:30	0.22	330	98	10.8	180
20110917	HW to LW	5.42	1.05	7:00	0.16	343	77	11.2	-
20110917	LW to HW	5.38	1.05	5:10	0.18	338	103	10.9	-
20110917	HW to LW	5.20	1.01	6:49	0.15	351	79	11.4	-
20110917	LW to HW	5.18	1.01	5:19	0.14	31	138	11.1	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20110918	HW to LW	5.18	1.01	6:49	0.16	3	84	11.6	-
20110918	LW to HW	5.24	1.02	5:40	0.17	18	134	11.2	-
20110918	HW to LW	5.00	0.97	6:40	0.15	2	71	11.6	-
20110918	LW to HW	4.92	0.96	5:30	0.15	44	137	11.2	-
20110919	HW to LW	5.01	0.98	6:40	0.14	354	86	11.5	-
20110919	LW to HW	4.87	0.95	5:40	0.19	319	138	10.7	-
20110919	HW to LW	4.65	0.90	6:30	0.16	0	92	11.4	-
20110919	LW to HW	4.55	0.88	5:49	0.15	20	109	10.9	-
20110920	HW to LW	4.66	0.91	6:40	0.15	353	68	11.2	-
20110920	LW to HW	4.36	0.85	5:30	0.16	14	103	10.7	-
20110920	HW to LW	4.25	0.83	6:30	0.15	353	103	11.3	-
20110920	LW to HW	4.28	0.83	5:49	0.18	344	140	10.9	-
20110921	HW to LW	4.14	0.81	6:30	0.15	341	94	11.2	-
20110921	LW to HW	3.94	0.77	6:10	0.18	352	108	10.7	-
20110921	HW to LW	3.92	0.76	6:30	0.15	350	88	10.6	-
20110921	LW to HW	3.85	0.75	6:10	0.20	314	176	10.5	-
20110922	HW to LW	3.61	0.70	6:10	0.12	354	63	10.9	-
20110922	LW to HW	3.71	0.72	6:30	0.19	344	111	10.5	-
20110922	HW to LW	3.63	0.71	6:40	0.18	347	143	11.0	-
20110922	LW to HW	3.62	0.70	6:10	0.17	350	101	10.6	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20110923	HW to LW	3.83	0.75	6:30	0.16	5	68	11.0	-
20110923	LW to HW	3.61	0.70	6:30	0.18	340	89	10.5	-
20110923	HW to LW	4.06	0.79	6:40	0.19	7	55	10.7	-
20110924	LW to HW	4.43	0.86	6:00	0.19	325	108	10.3	-
20110924	HW to LW	4.32	0.84	6:19	0.20	353	49	10.9	-
20110924	LW to HW	4.43	0.86	6:10	0.18	318	120	10.4	-
20110924	HW to LW	4.77	0.93	6:40	0.20	334	65	10.8	-
20110925	LW to HW	5.11	0.99	5:49	0.18	330	120	10.6	-
20110925	HW to LW	4.90	0.95	6:30	0.22	354	69	10.7	-
20110925	LW to HW	4.96	0.96	6:00	0.17	302	152	10.8	-
20110925	HW to LW	5.40	1.05	6:49	0.18	346	68	11.1	-
20110926	LW to HW	5.55	1.08	5:19	0.20	318	254	10.6	-
20110926	HW to LW	5.45	1.06	7:00	0.19	350	116	11.2	-
20110926	LW to HW	5.57	1.08	5:30	0.17	338	223	10.8	-
20110926	HW to LW	5.69	1.11	6:49	0.19	359	103	11.5	-
20110927	LW to HW	6.04	1.17	5:30	0.22	309	241	11.0	-
20110927	HW to LW	5.89	1.15	6:49	0.21	344	110	11.7	-
20110927	LW to HW	5.60	1.09	5:40	0.16	48	194	11.1	-
20110927	HW to LW	6.15	1.20	7:00	0.19	339	130	11.5	-
20110928	LW to HW	6.28	1.22	5:19	0.18	359	237	11.1	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20110928	HW to LW	5.90	1.15	6:40	0.17	349	139	11.4	-
20110928	LW to HW	6.06	1.18	5:30	0.16	305	254	11.0	-
20110928	HW to LW	6.38	1.24	7:10	0.22	3	159	12.2	-
20110929	LW to HW	6.43	1.25	5:10	0.18	317	271	11.9	-
20110929	HW to LW	6.12	1.19	7:00	0.21	340	147	13.0	-
20110929	LW to HW	6.09	1.19	5:19	0.17	332	214	12.2	-
20110929	HW to LW	6.41	1.25	7:19	0.21	358	129	12.9	-
20110930	LW to HW	6.36	1.24	5:00	0.19	307	319	12.1	-
20110930	HW to LW	6.08	1.18	7:00	0.20	332	146	13.1	-
20110930	LW to HW	6.12	1.19	5:30	0.19	285	278	12.4	-
20111001	HW to LW	6.32	1.23	7:19	0.21	352	140	13.2	-
20111001	LW to HW	6.18	1.20	5:00	0.16	15	232	12.7	-
20111001	HW to LW	5.91	1.15	7:00	0.19	344	156	13.1	-
20111001	LW to HW	5.93	1.15	5:19	0.16	321	235	12.8	-
20111002	HW to LW	6.06	1.18	7:10	0.18	340	134	13.3	-
20111002	LW to HW	5.76	1.12	5:19	0.16	342	209	12.7	-
20111002	HW to LW	5.59	1.09	7:00	0.16	342	129	13.2	-
20111002	LW to HW	5.67	1.10	5:19	0.17	291	239	12.8	-
20111003	HW to LW	5.63	1.09	7:00	0.18	357	146	13.4	-
20111003	LW to HW	5.26	1.02	5:30	0.18	327	185	12.9	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20111003	HW to LW	5.12	1.00	6:49	0.16	359	176	13.2	-
20111003	LW to HW	5.20	1.01	5:40	0.16	357	232	13.1	-
20111004	HW to LW	4.96	0.97	6:30	0.17	334	95	13.5	-
20111004	LW to HW	5.03	0.98	6:00	0.15	26	146	13.2	-
20111004	HW to LW	4.55	0.89	6:19	0.16	6	103	13.5	-
20111004	LW to HW	4.37	0.85	6:10	0.15	12	114	13.3	-
20111005	HW to LW	4.42	0.86	6:19	0.13	348	53	13.4	-
20111005	LW to HW	3.99	0.78	6:10	0.14	349	93	13.1	-
20111005	HW to LW	4.15	0.81	6:40	0.14	20	76	13.3	-
20111005	LW to HW	4.18	0.81	6:00	0.18	345	96	13.0	-
20111006	HW to LW	3.92	0.76	6:19	0.12	10	75	13.4	-
20111006	LW to HW	4.48	0.87	6:30	0.18	335	114	13.2	-
20111006	HW to LW	4.07	0.79	6:40	0.14	359	74	13.7	-
20111006	LW to HW	4.15	0.81	5:49	0.21	313	150	13.1	-
20111007	HW to LW	3.57	0.69	6:19	0.12	5	90	13.9	-
20111007	LW to HW	3.26	0.63	6:30	0.16	10	71	13.7	-
20111007	HW to LW	4.21	0.82	6:30	0.13	9	49	13.6	-
20111008	LW to HW	4.48	0.87	6:10	0.20	333	104	13.2	-
20111008	HW to LW	4.68	0.91	6:19	0.13	1	59	13.4	-
20111008	LW to HW	4.58	0.89	6:10	0.14	40	94	13.3	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20111008	HW to LW	4.95	0.96	6:30	0.14	0	95	13.5	-
20111009	LW to HW	4.99	0.97	5:49	0.17	2	193	13.0	-
20111009	HW to LW	5.20	1.01	6:40	0.14	355	90	13.4	-
20111009	LW to HW	4.77	0.93	5:49	0.14	25	176	12.9	-
20111009	HW to LW	4.76	0.93	6:19	0.15	2	113	12.9	-
20111010	LW to HW	5.58	1.09	5:49	0.20	304	227	12.5	-
20111010	HW to LW	4.92	0.96	6:19	0.14	353	170	13.4	-
20111010	LW to HW	4.78	0.93	5:49	0.19	337	228	12.8	-
20111010	HW to LW	5.08	0.99	6:49	0.15	355	119	13.2	-
20111011	LW to HW	5.25	1.02	5:30	0.17	37	306	12.8	-
20111011	HW to LW	5.26	1.02	6:49	0.17	355	101	13.1	-
20111011	LW to HW	5.30	1.03	5:30	0.15	28	209	12.8	-
20111011	HW to LW	5.57	1.08	6:49	0.17	351	113	12.8	-
20111012	LW to HW	5.62	1.09	5:30	0.20	26	226	12.8	-
20111012	HW to LW	5.41	1.05	6:30	0.16	342	106	13.2	-
20111012	LW to HW	5.24	1.02	5:40	0.17	31	184	13.1	-
20111012	HW to LW	5.70	1.11	7:10	0.18	352	111	13.1	-
20111013	LW to HW	5.52	1.07	5:10	0.18	21	221	12.7	-
20111013	HW to LW	5.46	1.06	6:40	0.18	340	150	13.3	-
20111013	LW to HW	5.39	1.05	5:40	0.19	303	234	12.6	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [f]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20111013	HW to LW	5.66	1.10	6:49	0.20	353	126	13.2	-
20111014	LW to HW	5.55	1.08	5:30	0.21	350	226	12.6	-
20110913	HW to LW	5.58	1.08	7:00	0.13	13	91	11.2	-
20110914	LW to HW	5.60	1.09	5:19	0.17	23	114	10.9	-
20110914	HW to LW	5.49	1.07	6:40	0.13	336	77	11.3	-
20110914	LW to HW	5.48	1.07	5:40	0.17	21	117	11.0	-
20110914	HW to LW	5.90	1.15	7:00	0.18	339	122	11.2	-
20110915	LW to HW	5.79	1.13	5:19	0.17	37	129	10.9	-
20110915	HW to LW	5.57	1.08	6:40	0.18	6	79	11.4	-
20110915	LW to HW	5.43	1.06	5:40	0.19	342	132	10.9	-
20110916	HW to LW	5.79	1.13	6:49	0.15	347	76	11.2	-
20110916	LW to HW	5.54	1.08	5:19	0.20	343	92	10.8	-
20110916	HW to LW	5.44	1.06	6:40	0.17	342	87	11.2	-
20110916	LW to HW	5.43	1.06	5:30	0.22	330	98	10.8	-
20110917	HW to LW	5.42	1.05	7:00	0.16	343	77	11.2	-
20110917	LW to HW	5.38	1.05	5:10	0.18	338	103	10.9	-
20110917	HW to LW	5.20	1.01	6:49	0.15	351	79	11.4	-
20110917	LW to HW	5.18	1.01	5:19	0.14	31	138	11.1	-
20110918	HW to LW	5.18	1.01	6:49	0.16	3	84	11.6	-
20110918	LW to HW	5.24	1.02	5:40	0.17	18	134	11.2	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [f]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20110918	HW to LW	5.00	0.97	6:40	0.15	2	71	11.6	-
20110918	LW to HW	4.92	0.96	5:30	0.15	44	137	11.2	-
20110919	HW to LW	5.01	0.98	6:40	0.14	354	86	11.5	-
20110919	LW to HW	4.87	0.95	5:40	0.19	319	138	10.7	-
20110919	HW to LW	4.65	0.90	6:30	0.16	0	92	11.4	-
20110919	LW to HW	4.55	0.88	5:49	0.15	20	109	10.9	-
20110920	HW to LW	4.66	0.91	6:40	0.15	353	68	11.2	-
20110920	LW to HW	4.36	0.85	5:30	0.16	14	103	10.7	-
20110920	HW to LW	4.25	0.83	6:30	0.15	353	103	11.3	-
20110920	LW to HW	4.28	0.83	5:49	0.18	344	140	10.9	-
20110921	HW to LW	4.14	0.81	6:30	0.15	341	94	11.2	-
20110921	LW to HW	3.94	0.77	6:10	0.18	352	108	10.7	-
20110921	HW to LW	3.92	0.76	6:30	0.15	350	88	10.6	-
20110921	LW to HW	3.85	0.75	6:10	0.20	314	176	10.5	-
20110922	HW to LW	3.61	0.70	6:10	0.12	354	63	10.9	-
20110922	LW to HW	3.71	0.72	6:30	0.19	344	111	10.5	-
20110922	HW to LW	3.63	0.71	6:40	0.18	347	143	11.0	-
20110922	LW to HW	3.62	0.70	6:10	0.17	350	101	10.6	-
20110923	HW to LW	3.83	0.75	6:30	0.16	5	68	11.0	-
20110923	LW to HW	3.61	0.70	6:30	0.18	340	89	10.5	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20110923	HW to LW	4.06	0.79	6:40	0.19	7	55	10.7	-
20110924	LW to HW	4.43	0.86	6:00	0.19	325	108	10.3	-
20110924	HW to LW	4.32	0.84	6:19	0.20	353	49	10.9	-
20110924	LW to HW	4.43	0.86	6:10	0.18	318	120	10.4	-
20110924	HW to LW	4.77	0.93	6:40	0.20	334	65	10.8	-
20110925	LW to HW	5.11	0.99	5:49	0.18	330	120	10.6	-
20110925	HW to LW	4.90	0.95	6:30	0.22	354	69	10.7	-
20110925	LW to HW	4.96	0.96	6:00	0.17	302	152	10.8	-
20110925	HW to LW	5.40	1.05	6:49	0.18	346	68	11.1	-
20110926	LW to HW	5.55	1.08	5:19	0.20	318	254	10.6	-
20110926	HW to LW	5.45	1.06	7:00	0.19	350	116	11.2	-
20110926	LW to HW	5.57	1.08	5:30	0.17	338	223	10.8	-
20110926	HW to LW	5.69	1.11	6:49	0.19	359	103	11.5	-
20110927	LW to HW	6.04	1.17	5:30	0.22	309	241	11.0	-
20110927	HW to LW	5.89	1.15	6:49	0.21	344	110	11.7	-
20110927	LW to HW	5.60	1.09	5:40	0.16	48	194	11.1	-
20110927	HW to LW	6.15	1.20	7:00	0.19	339	130	11.5	-
20110928	LW to HW	6.28	1.22	5:19	0.18	359	237	11.1	-
20110928	HW to LW	5.90	1.15	6:40	0.17	349	139	11.4	-
20110928	LW to HW	6.06	1.18	5:30	0.16	305	254	11.0	-

End date [yyyymm dd]	Phase	Tidal ampli- tude [m]	Tidal coeffi- cient [/]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20110928	HW to LW	6.38	1.24	7:10	0.22	3	159	12.2	-
20110929	LW to HW	6.43	1.25	5:10	0.18	317	271	11.9	-
20110929	HW to LW	6.12	1.19	7:00	0.21	340	147	13.0	-
20110929	LW to HW	6.09	1.19	5:19	0.17	332	214	12.2	-
20110929	HW to LW	6.41	1.25	7:19	0.21	358	129	12.9	-
20110930	LW to HW	6.36	1.24	5:00	0.19	307	319	12.1	-
20110930	HW to LW	6.08	1.18	7:00	0.20	332	146	13.1	-
20110930	LW to HW	6.12	1.19	5:30	0.19	285	278	12.4	-
20111001	HW to LW	6.32	1.23	7:19	0.21	352	140	13.2	-
20111001	LW to HW	6.18	1.20	5:00	0.16	15	232	12.7	-
20111001	HW to LW	5.91	1.15	7:00	0.19	344	156	13.1	-
20111001	LW to HW	5.93	1.15	5:19	0.16	321	235	12.8	-
20111002	HW to LW	6.06	1.18	7:10	0.18	340	134	13.3	-
20111002	LW to HW	5.76	1.12	5:19	0.16	342	209	12.7	-
20111002	HW to LW	5.59	1.09	7:00	0.16	342	129	13.2	-
20111002	LW to HW	5.67	1.10	5:19	0.17	291	239	12.8	-
20111003	HW to LW	5.63	1.09	7:00	0.18	357	146	13.4	-
20111003	LW to HW	5.26	1.02	5:30	0.18	327	185	12.9	-
20111003	HW to LW	5.12	1.00	6:49	0.16	359	176	13.2	-
20111003	LW to HW	5.20	1.01	5:40	0.16	357	232	13.1	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [f]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20111004	HW to LW	4.96	0.97	6:30	0.17	334	95	13.5	-
20111004	LW to HW	5.03	0.98	6:00	0.15	26	146	13.2	-
20111004	HW to LW	4.55	0.89	6:19	0.16	6	103	13.5	-
20111004	LW to HW	4.37	0.85	6:10	0.15	12	114	13.3	-
20111005	HW to LW	4.42	0.86	6:19	0.13	348	53	13.4	-
20111005	LW to HW	3.99	0.78	6:10	0.14	349	93	13.1	-
20111005	HW to LW	4.15	0.81	6:40	0.14	20	76	13.3	-
20111005	LW to HW	4.18	0.81	6:00	0.18	345	96	13.0	-
20111006	HW to LW	3.92	0.76	6:19	0.12	10	75	13.4	-
20111006	LW to HW	4.48	0.87	6:30	0.18	335	114	13.2	-
20111006	HW to LW	4.07	0.79	6:40	0.14	359	74	13.7	-
20111006	LW to HW	4.15	0.81	5:49	0.21	313	150	13.1	-
20111007	HW to LW	3.57	0.69	6:19	0.12	5	90	13.9	-
20111007	LW to HW	3.26	0.63	6:30	0.16	10	71	13.7	-
20111007	HW to LW	4.21	0.82	6:30	0.13	9	49	13.6	-
20111008	LW to HW	4.48	0.87	6:10	0.20	333	104	13.2	-
20111008	HW to LW	4.68	0.91	6:19	0.13	1	59	13.4	-
20111008	LW to HW	4.58	0.89	6:10	0.14	40	94	13.3	-
20111008	HW to LW	4.95	0.96	6:30	0.14	0	95	13.5	-
20111009	LW to HW	4.99	0.97	5:49	0.17	2	193	13.0	-

End date [yyyymmdd]	Phase	Tidal amplitude [m]	Tidal coefficient [f]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
20111009	HW to LW	5.20	1.01	6:40	0.14	355	90	13.4	-
20111009	LW to HW	4.77	0.93	5:49	0.14	25	176	12.9	-
20111009	HW to LW	4.76	0.93	6:19	0.15	2	113	12.9	-
20111010	LW to HW	5.58	1.09	5:49	0.20	304	227	12.5	-
20111010	HW to LW	4.92	0.96	6:19	0.14	353	170	13.4	-
20111010	LW to HW	4.78	0.93	5:49	0.19	337	228	12.8	-
20111010	HW to LW	5.08	0.99	6:49	0.15	355	119	13.2	-
20111011	LW to HW	5.25	1.02	5:30	0.17	37	306	12.8	-
20111011	HW to LW	5.26	1.02	6:49	0.17	355	101	13.1	-
20111011	LW to HW	5.30	1.03	5:30	0.15	28	209	12.8	-
20111011	HW to LW	5.57	1.08	6:49	0.17	351	113	12.8	-
20111012	LW to HW	5.62	1.09	5:30	0.20	26	226	12.8	-
20111012	HW to LW	5.41	1.05	6:30	0.16	342	106	13.2	-
20111012	LW to HW	5.24	1.02	5:40	0.17	31	184	13.1	-
20111012	HW to LW	5.70	1.11	7:10	0.18	352	111	13.1	-
20111013	LW to HW	5.52	1.07	5:10	0.18	21	221	12.7	-
20111013	HW to LW	5.46	1.06	6:40	0.18	340	150	13.3	-
20111013	LW to HW	5.39	1.05	5:40	0.19	303	234	12.6	-
20111013	HW to LW	5.66	1.10	6:49	0.20	353	126	13.2	-
20111014	LW to HW	5.55	1.08	5:30	0.21	350	226	12.6	-

Overview

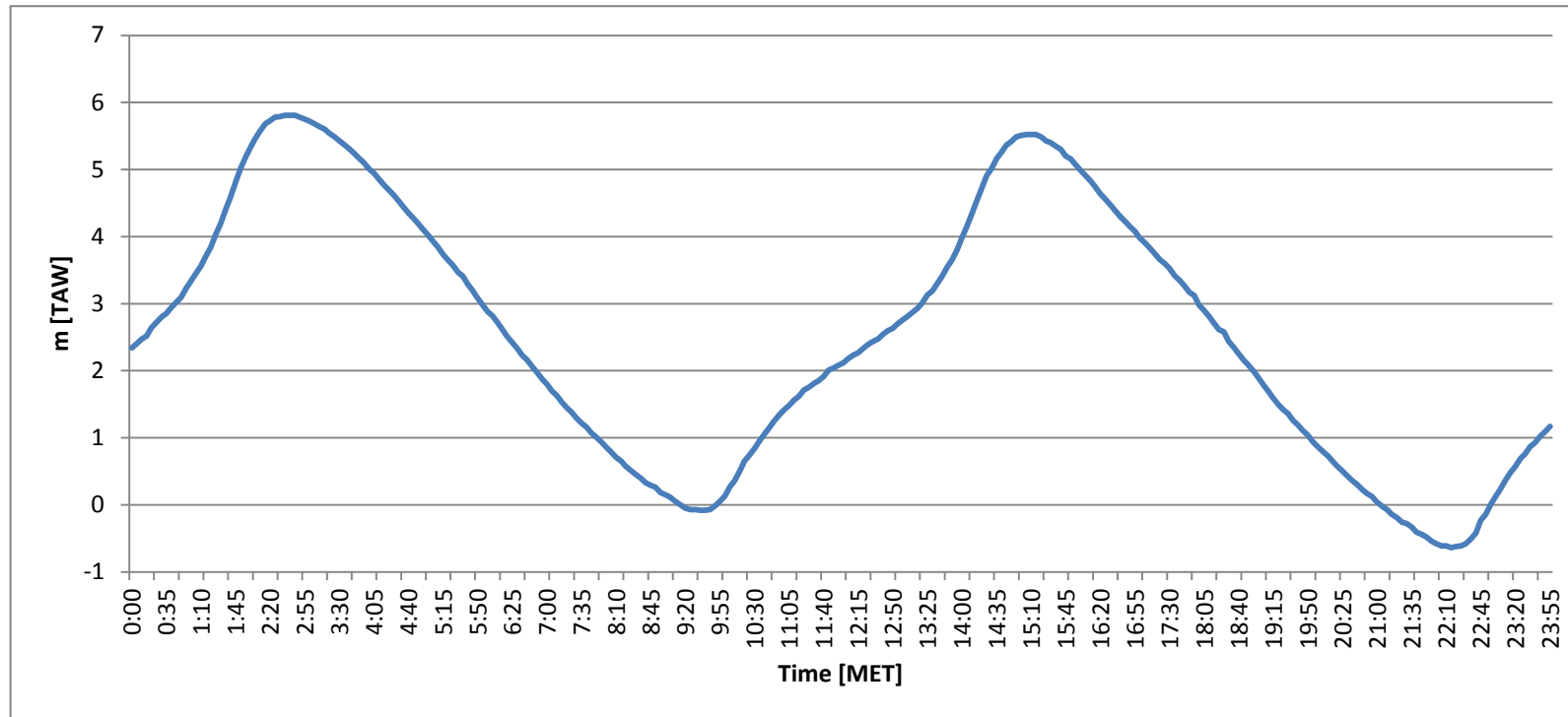
Tidal Type	Phase	Tidal amplitude [m]	Tidal coefficient [I]	Duration [HH:MM]	Averaged values at 0.8m above the bottom (RCM-9)				Depth averaged from 0.2-1.2m above bottom (argus)
					Velocity [m/s]	Direction [°]	SSC [mg/l]	Salinity [psu]	SSC [mg/l]
Neap	HW to LW	4.21	0.82	6:28	0.15	358	79	12.1	-
	LW to HW	4.22	0.82	6:04	0.17	347	121	11.8	-
Average	HW to LW	5.07	0.99	6:40	0.16	355	103	12.5	-
	LW to HW	5.18	1.01	5:37	0.17	2	177	12.1	-
Spring	HW to LW	5.78	1.12	6:55	0.18	348	117	12.2	138
	LW to HW	5.80	1.13	5:24	0.18	341	208	11.7	200

Neap tide: tidal coefficient < 0.95; Average tide: 0.95 <= tidal coefficient <= 1.05; Spring tide > 1.05

Annex D Siltprofiler Graphs

D.1 Tidal data

11354 – Autumn 2011 SURVEY



Measured tide at Liefkenshoek

Location:
River Scheldt

Date:
27/09/2011

Data processed by:



In association with:

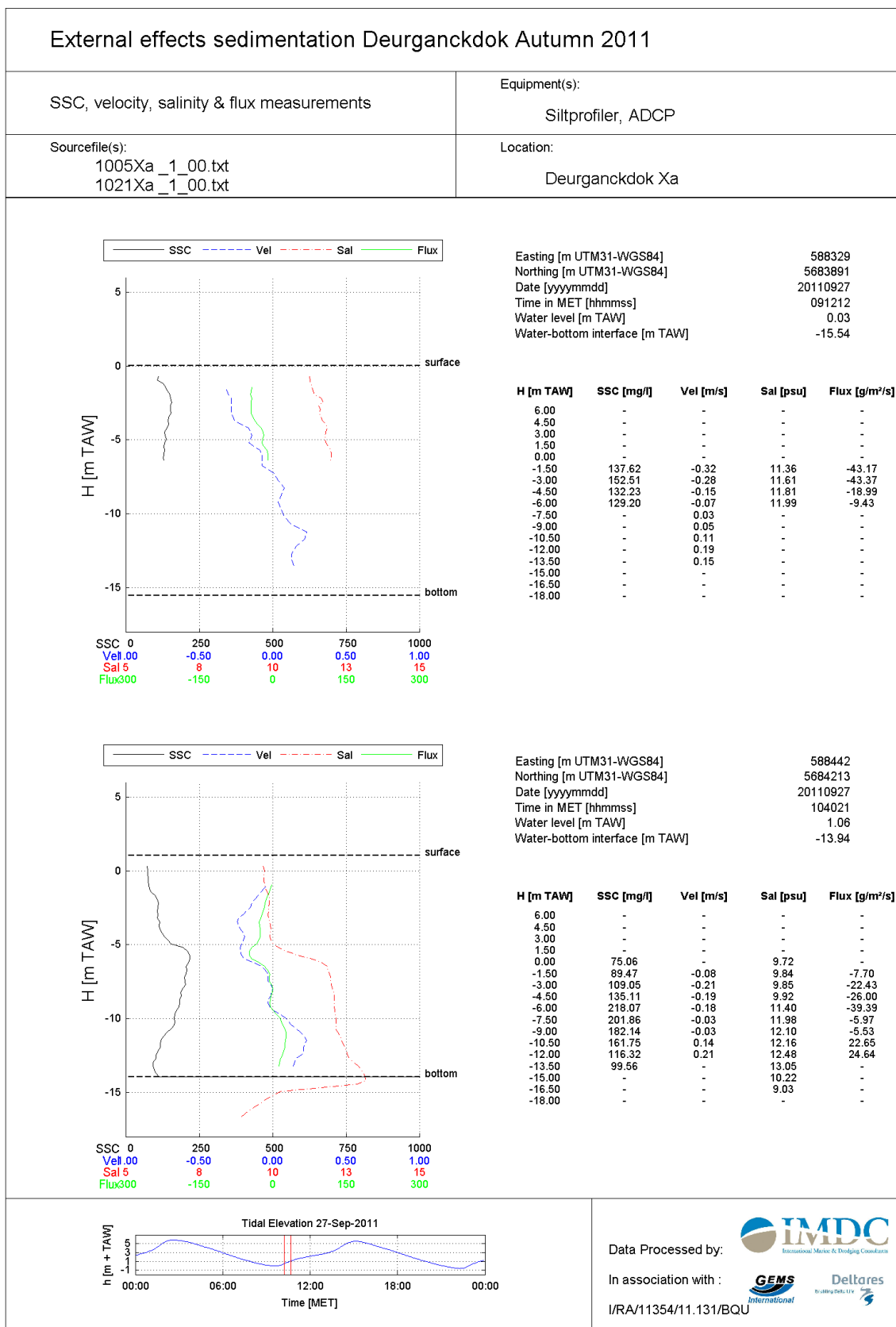


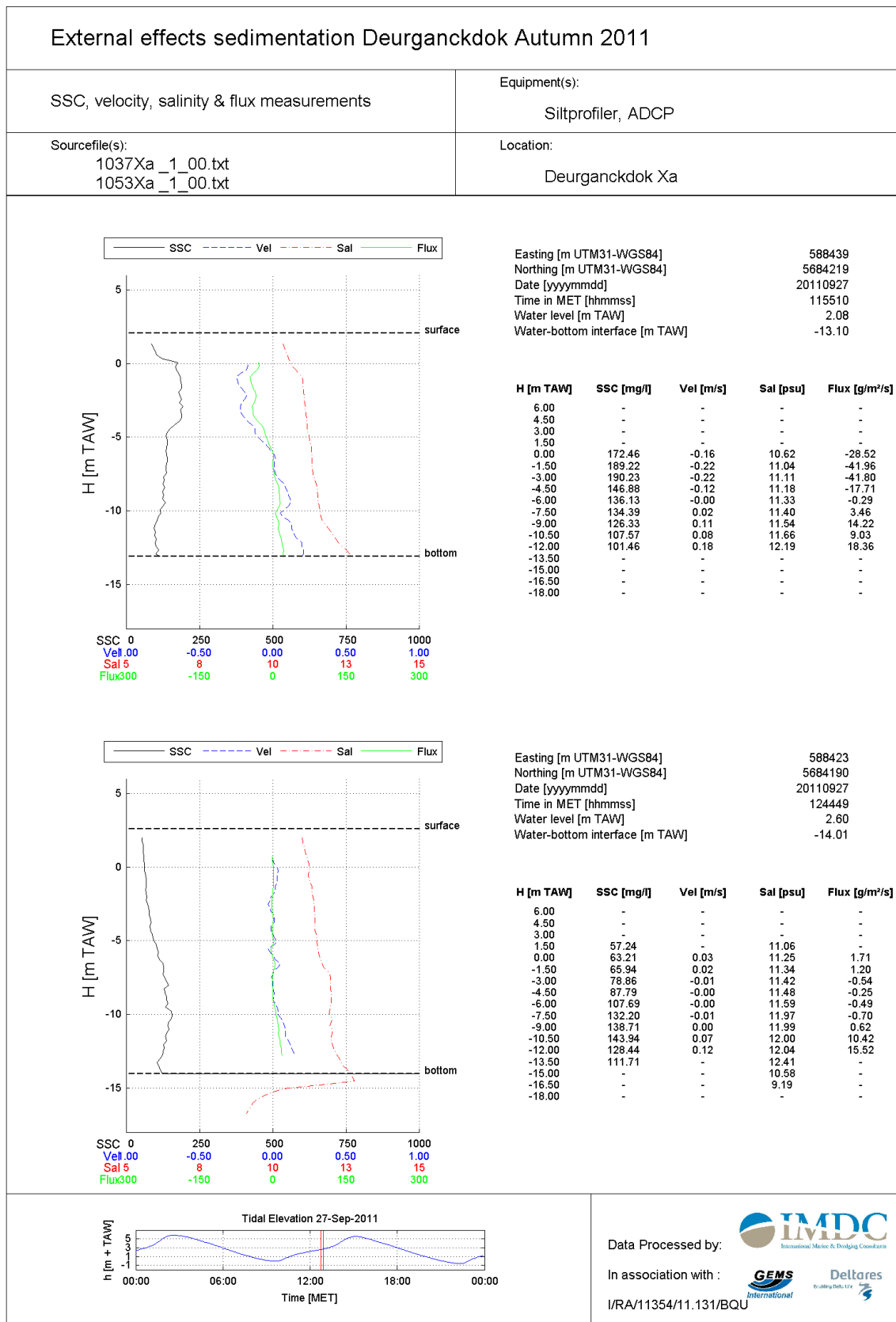
&



I/RA/11354/11.131/BQU

D.2 Location Xa





External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

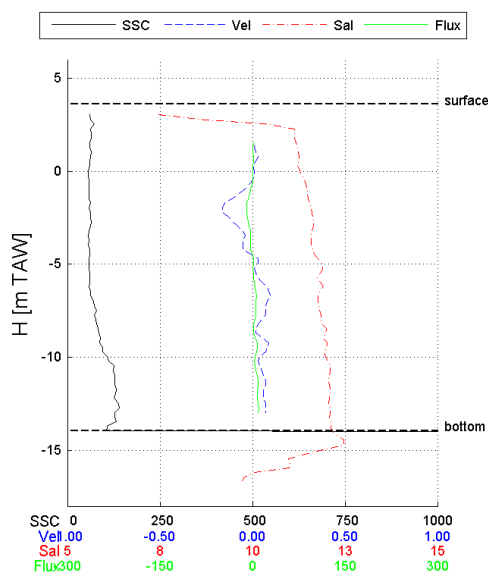
Siltprofiler, ADCP

Sourcefile(s):

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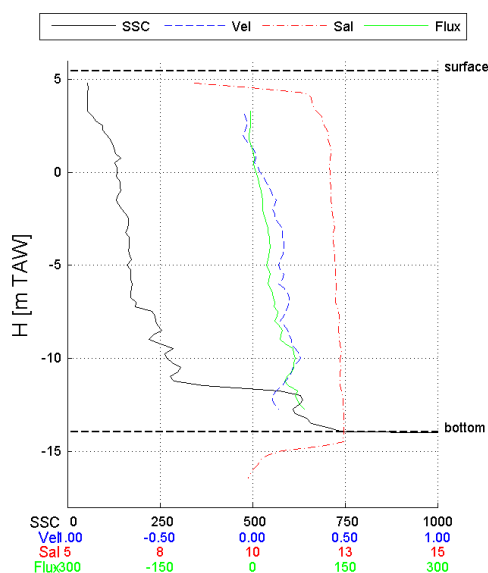
Location:

Deurganckdok Xa



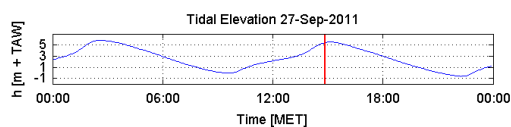
Easting [m UTM31-WGS84] 588446
Northing [m UTM31-WGS84] 5684210
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 134724
Water level [m TAW] 3.60
Water-bottom interface [m TAW] -13.96

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	60.50	-	7.71	-
1.50	60.62	0.02	11.18	1.35
0.00	56.63	0.01	11.29	0.38
-1.50	58.47	-0.12	11.52	-6.90
-3.00	62.25	-0.07	11.63	-4.50
-4.50	59.53	-0.00	11.69	-0.26
-6.00	59.83	0.06	11.86	3.48
-7.50	77.68	0.07	11.83	5.63
-9.00	89.13	0.06	11.94	5.34
-10.50	126.23	0.04	12.10	4.83
-12.00	128.68	0.06	12.10	7.70
-13.50	128.98	-	12.12	-
-15.00	-	-	11.82	-
-16.50	-	-	9.76	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588564
Northing [m UTM31-WGS84] 5684237
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 145149
Water level [m TAW] 5.45
Water-bottom interface [m TAW] -13.96

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	56.03	-	10.16	-
3.00	68.89	-0.04	11.88	-2.54
1.50	121.60	-0.02	12.09	-2.29
0.00	133.84	0.04	12.10	5.82
-1.50	132.79	0.13	12.13	16.75
-3.00	162.44	0.16	12.22	25.62
-4.50	166.49	0.16	12.22	26.06
-6.00	175.23	0.14	12.26	25.34
-7.50	228.58	0.18	12.32	41.13
-9.00	222.87	0.21	12.34	46.04
-10.50	306.56	0.22	12.41	66.75
-12.00	631.04	0.11	12.43	70.16
-13.50	662.87	-	12.46	-
-15.00	-	-	10.73	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

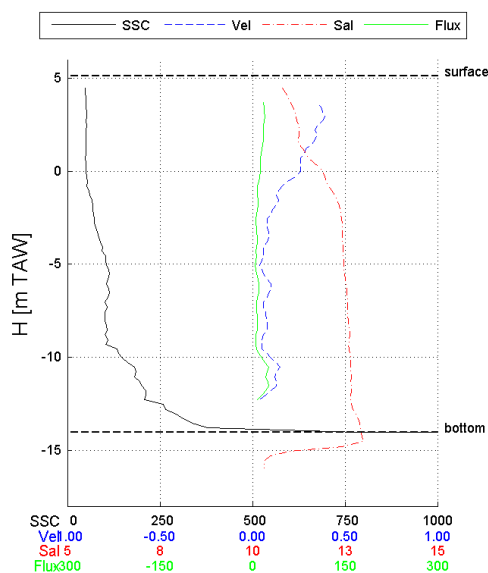
Siltprofiler, ADCP

Sourcefile(s):

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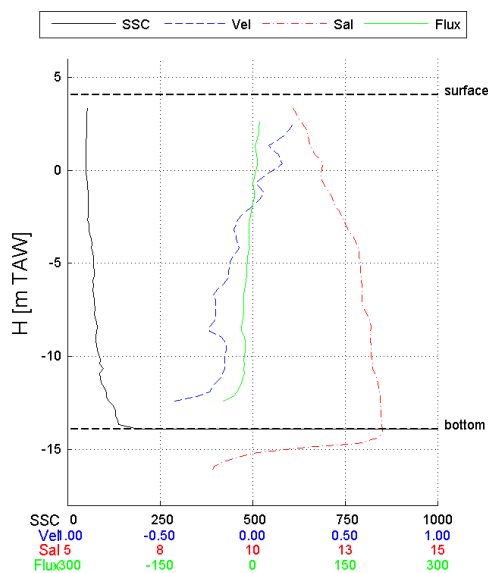
Location:

Deurganckdok Xa



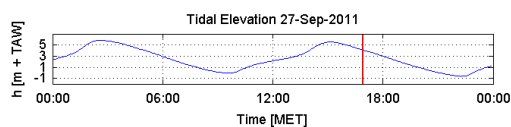
Easting [m UTM31-WGS84] 588459
Northing [m UTM31-WGS84] 5684211
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 155202
Water level [m TAW] 5.12
Water-bottom interface [m TAW] -14.03

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	51.33	0.39	11.16	19.84
1.50	51.06	0.32	11.25	16.39
0.00	50.15	0.26	11.89	12.85
-1.50	65.26	0.14	12.28	9.17
-3.00	76.72	0.08	12.42	6.44
-4.50	102.58	0.06	12.45	6.54
-6.00	106.62	0.10	12.53	10.23
-7.50	103.27	0.07	12.58	6.91
-9.00	108.91	0.05	12.62	5.38
-10.50	178.73	0.15	12.65	25.81
-12.00	212.17	0.08	12.66	16.35
-13.50	334.49	-	12.89	-
-15.00	-	-	11.25	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588451
Northing [m UTM31-WGS84] 5684202
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 165455
Water level [m TAW] 4.08
Water-bottom interface [m TAW] -13.91

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	51.92	-	11.19	-
1.50	51.04	0.12	11.53	5.86
0.00	50.76	0.11	11.86	5.74
-1.50	56.45	0.04	12.15	2.22
-3.00	58.14	-0.09	12.54	-5.44
-4.50	69.45	-0.10	12.87	-6.97
-6.00	70.22	-0.15	12.95	-10.42
-7.50	73.62	-0.20	13.04	-14.44
-9.00	76.73	-0.16	13.19	-12.69
-10.50	90.46	-0.15	13.24	-13.25
-12.00	106.32	-0.26	13.44	-27.72
-13.50	137.44	-	13.49	-
-15.00	-	-	10.95	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

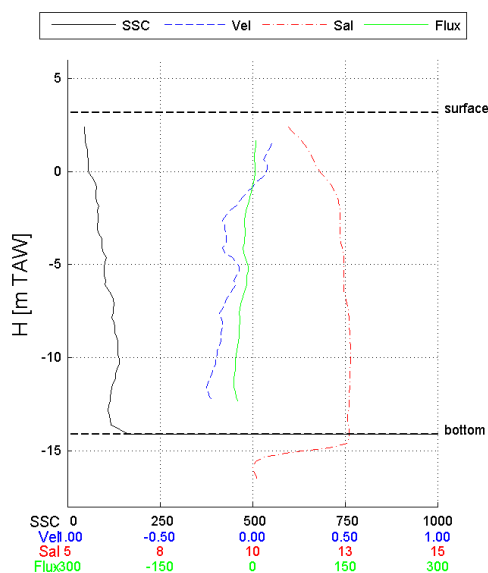
Siltprofiler, ADCP

Sourcefile(s):

1136Xa_1_00.txt
1137Xa_1_00.txt

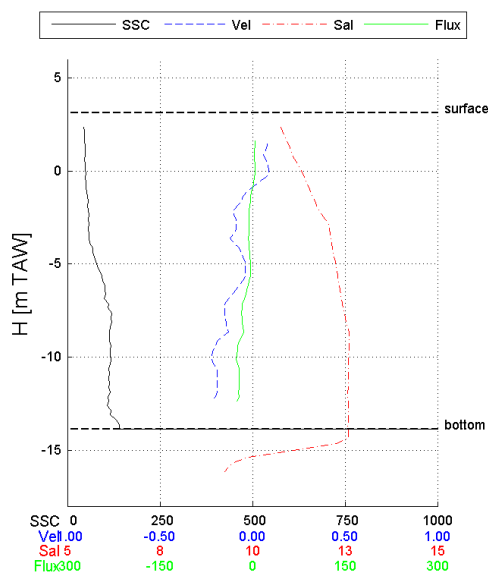
Location:

Deurganckdok Xa



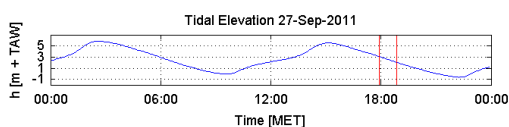
Easting [m UTM31-WGS84] 588487
Northing [m UTM31-WGS84] 5684201
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 175121
Water level [m TAW] 3.16
Water-bottom interface [m TAW] -14.10

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	49.98	0.10	11.38	5.23
0.00	58.12	0.07	11.83	4.04
-1.50	78.69	-0.06	12.32	-4.70
-3.00	80.14	-0.15	12.37	-11.99
-4.50	102.06	-0.13	12.46	-12.89
-6.00	101.79	-0.09	12.47	-9.58
-7.50	124.20	-0.17	12.60	-21.16
-9.00	134.22	-0.17	12.64	-22.36
-10.50	135.83	-0.21	12.64	-27.77
-12.00	116.83	-0.23	12.62	-27.29
-13.50	116.71	-	12.59	-
-15.00	-	-	11.41	-
-16.50	-	-	10.12	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588453
Northing [m UTM31-WGS84] 5684208
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 175342
Water level [m TAW] 3.13
Water-bottom interface [m TAW] -13.87

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	47.16	0.08	10.97	3.88
0.00	49.13	0.09	11.34	4.37
-1.50	55.21	-0.06	11.66	-3.15
-3.00	57.42	-0.09	12.07	-5.10
-4.50	70.72	-0.05	12.20	-3.95
-6.00	98.72	-0.06	12.34	-6.25
-7.50	114.83	-0.15	12.47	-17.16
-9.00	114.26	-0.17	12.61	-19.78
-10.50	113.72	-0.20	12.59	-22.80
-12.00	112.26	-0.20	12.58	-22.10
-13.50	135.63	-	12.59	-
-15.00	-	-	11.10	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

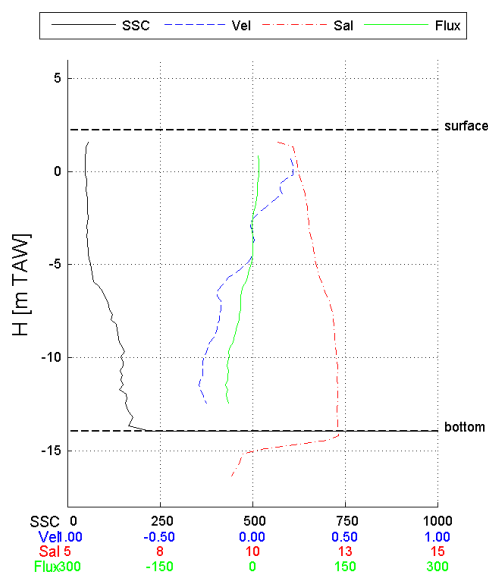
Siltprofiler, ADCP

Sourcefile(s):

1153Xa_1_00.txt
1168Xa_1_00.txt

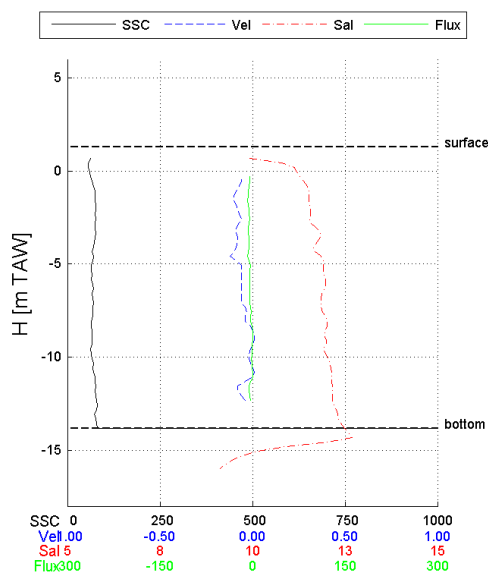
Location:

Deurganckdok Xa



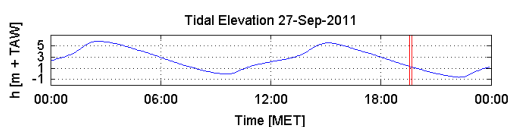
Easting [m UTM31-WGS84] 588464
Northing [m UTM31-WGS84] 5684195
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 184036
Water level [m TAW] 2.24
Water-bottom interface [m TAW] -13.94

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	54.48	-	10.82	-
0.00	47.92	0.22	11.25	10.74
-1.50	53.97	0.12	11.44	6.76
-3.00	52.80	-0.01	11.54	-0.20
-4.50	56.46	-0.00	11.68	-0.11
-6.00	74.44	-0.16	11.88	-11.86
-7.50	114.89	-0.17	12.16	-19.79
-9.00	139.74	-0.22	12.23	-30.24
-10.50	148.59	-0.27	12.30	-40.55
-12.00	160.02	-0.27	12.31	-42.65
-13.50	169.20	-	12.30	-
-15.00	-	-	10.07	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588448
Northing [m UTM31-WGS84] 5684189
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 193250
Water level [m TAW] 1.30
Water-bottom interface [m TAW] -13.81

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	58.97	-	11.18	-
-1.50	75.39	-0.10	11.53	-7.76
-3.00	75.62	-0.09	11.71	-6.65
-4.50	69.08	-0.12	11.82	-7.73
-6.00	67.03	-0.06	11.97	-3.80
-7.50	69.33	-0.03	11.89	-2.53
-9.00	66.94	0.01	11.98	0.51
-10.50	69.48	-0.00	12.11	-0.27
-12.00	76.61	-0.06	12.16	-5.01
-13.50	79.26	-	12.37	-
-15.00	-	-	10.32	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:

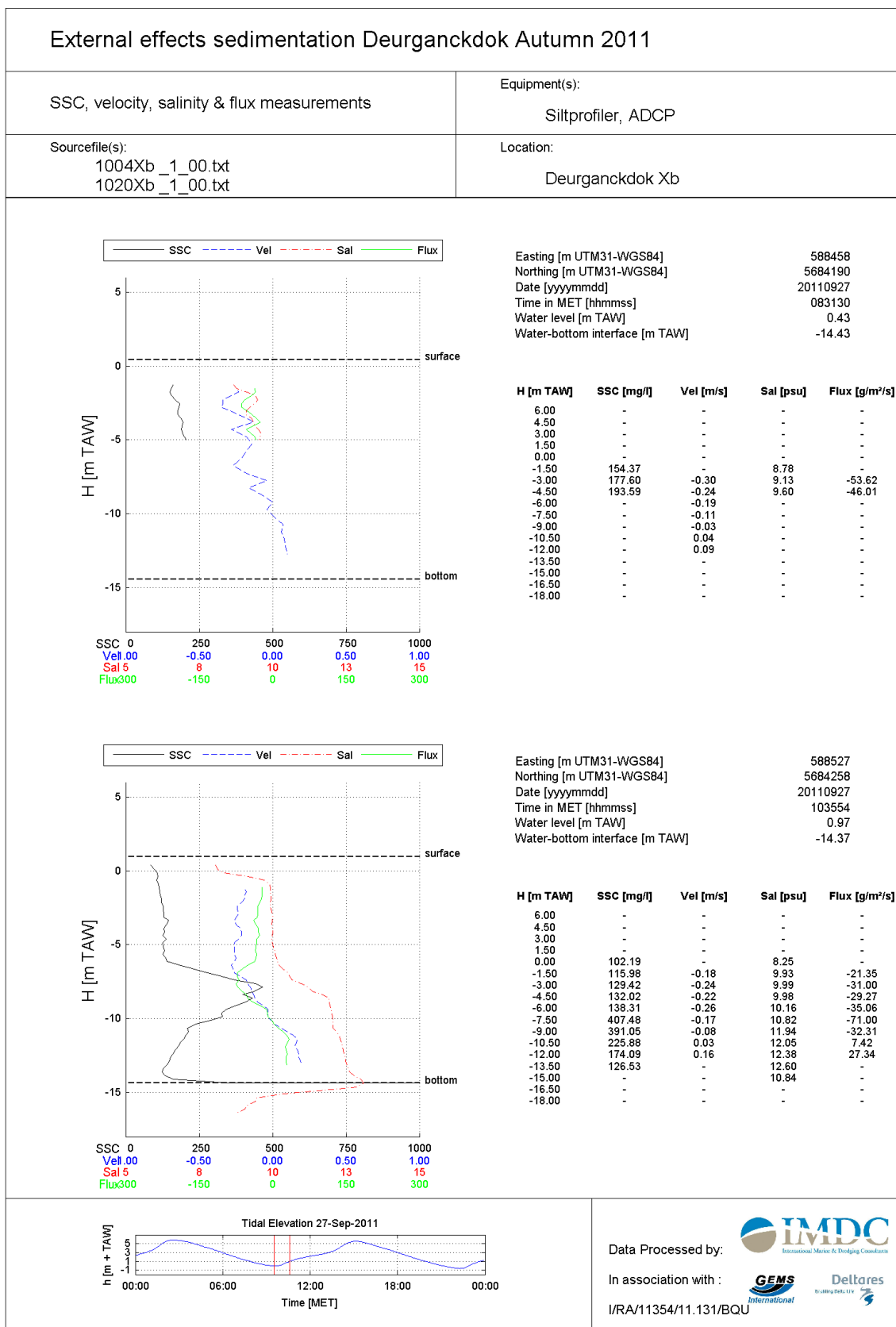


In association with:



I/RA/11354/11.131/BQU

D.3 Location Xb



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

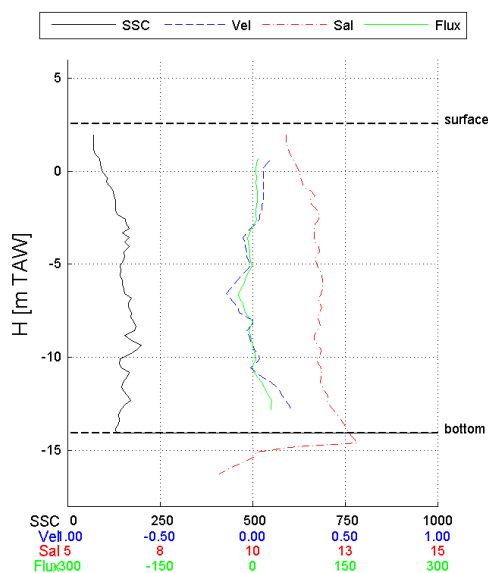
Siltprofiler, ADCP

Sourcefile(s):

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1069Xb_1_00.txt

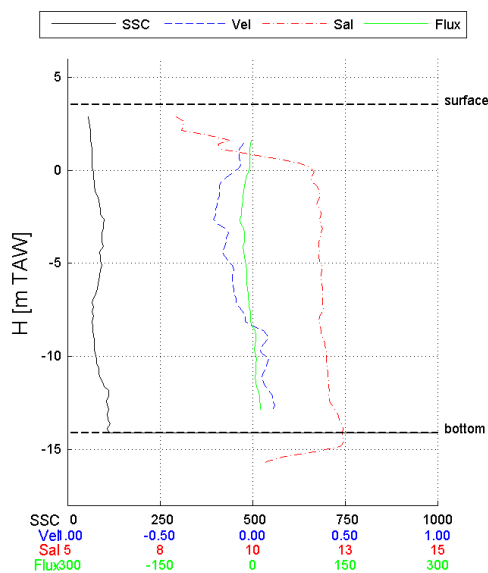
Location:

Deurganckdok Xb



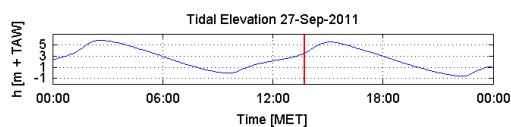
Easting [m UTM31-WGS84] 588472
Northing [m UTM31-WGS84] 5684259
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 124130
Water level [m TAW] 2.56
Water-bottom interface [m TAW] -14.07

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	71.30	-	10.92	-
0.00	94.29	0.06	11.25	5.97
-1.50	129.37	0.06	11.58	7.73
-3.00	165.18	-0.00	11.67	-0.89
-4.50	153.97	-0.03	11.75	-4.29
-6.00	147.93	-0.09	11.89	-13.68
-7.50	170.41	-0.07	11.84	-12.17
-9.00	167.01	-0.01	11.66	-2.07
-10.50	145.15	-0.00	11.84	0.09
-12.00	159.51	0.16	12.01	25.33
-13.50	139.10	-	12.45	-
-15.00	-	-	10.39	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588504
Northing [m UTM31-WGS84] 5684290
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 134456
Water level [m TAW] 3.55
Water-bottom interface [m TAW] -14.10

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	63.98	-0.05	9.20	-3.03
0.00	68.63	-0.09	11.64	-6.18
-1.50	83.48	-0.19	11.81	-15.48
-3.00	97.42	-0.17	11.87	-16.38
-4.50	88.30	-0.15	11.80	-13.37
-6.00	84.42	-0.11	11.87	-9.10
-7.50	68.27	-0.06	11.90	-4.17
-9.00	72.48	0.08	11.90	5.82
-10.50	82.29	0.07	12.01	5.98
-12.00	111.34	0.10	12.06	11.07
-13.50	113.98	-	12.39	-
-15.00	-	-	11.97	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

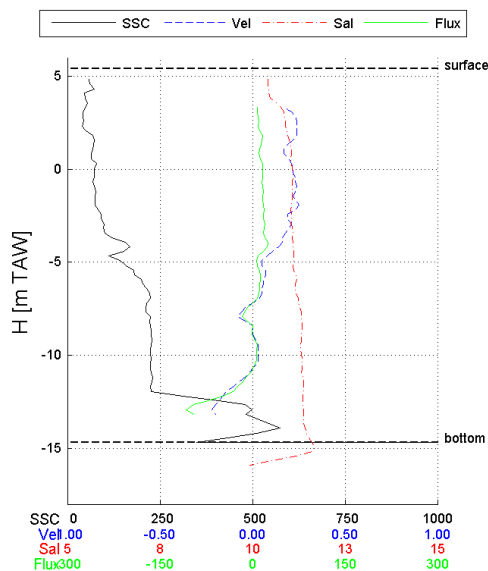
Siltprofiler, ADCP

Sourcefile(s):

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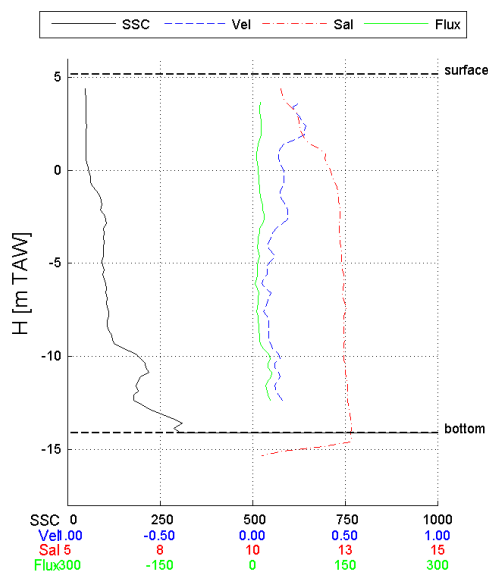
Location:

Deurganckdok Xb



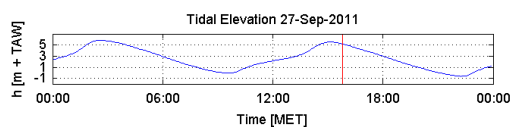
Easting [m UTM31-WGS84] 588566
Northing [m UTM31-WGS84] 5684266
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 144718
Water level [m TAW] 5.39
Water-bottom interface [m TAW] -14.66

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	64.09	-	10.43	-
3.00	41.46	0.22	10.86	8.86
1.50	72.08	0.21	11.01	15.03
0.00	73.06	0.22	11.08	16.23
-1.50	74.84	0.22	11.08	16.54
-3.00	98.17	0.21	11.06	20.26
-4.50	137.40	0.10	11.11	14.36
-6.00	201.07	0.06	11.18	12.33
-7.50	212.28	-0.05	11.30	-9.20
-9.00	227.21	0.01	11.32	1.12
-10.50	224.21	0.02	11.35	4.07
-12.00	250.92	-0.15	11.38	-36.16
-13.50	523.72	-	11.38	-
-15.00	24225.52	-	11.64	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588507
Northing [m UTM31-WGS84] 5684287
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 154841
Water level [m TAW] 5.17
Water-bottom interface [m TAW] -14.10

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.60	0.24	11.20	12.38
1.50	51.14	0.19	11.50	9.96
0.00	56.83	0.17	12.11	9.32
-1.50	89.73	0.16	12.33	14.07
-3.00	100.00	0.14	12.35	14.05
-4.50	97.49	0.11	12.40	10.63
-6.00	101.84	0.05	12.46	5.44
-7.50	110.56	0.06	12.52	7.49
-9.00	120.82	0.09	12.48	11.38
-10.50	211.35	0.12	12.50	25.55
-12.00	183.16	0.14	12.57	24.58
-13.50	301.05	-	12.66	-
-15.00	-	-	11.22	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

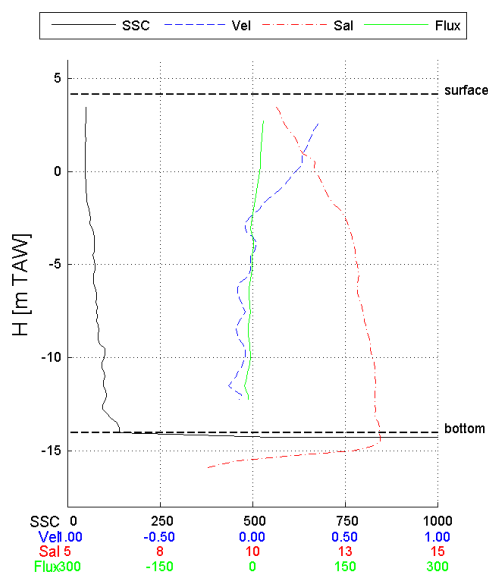
Siltprofiler, ADCP

Sourcefile(s):

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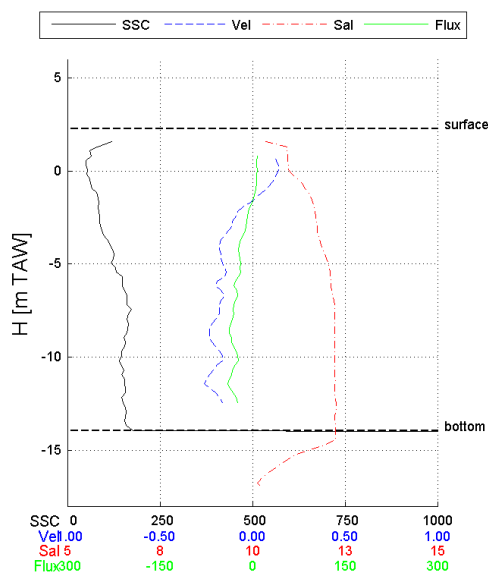
Location:

Deurganckdok Xb



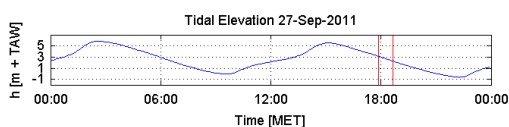
Easting [m UTM31-WGS84] 588522
Northing [m UTM31-WGS84] 5684262
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 165045
Water level [m TAW] 4.14
Water-bottom interface [m TAW] -14.01

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.18	-	10.77	-
1.50	48.03	0.30	11.23	14.30
0.00	48.41	0.23	11.67	11.30
-1.50	52.48	0.08	12.11	4.32
-3.00	66.09	-0.04	12.61	-2.63
-4.50	68.76	-0.01	12.78	-0.33
-6.00	71.09	-0.07	12.84	-4.78
-7.50	79.94	-0.04	12.99	-3.60
-9.00	83.94	-0.07	13.17	-5.93
-10.50	92.75	-0.06	13.31	-5.72
-12.00	106.16	-0.06	13.31	-6.87
-13.50	134.58	-	13.42	-
-15.00	-	-	12.70	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588499
Northing [m UTM31-WGS84] 5684286
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 183755
Water level [m TAW] 2.29
Water-bottom interface [m TAW] -13.93

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	108.69	-	10.51	-
0.00	53.97	0.14	11.00	7.29
-1.50	83.02	0.01	11.60	0.94
-3.00	90.14	-0.12	11.76	-10.60
-4.50	124.89	-0.17	11.96	-21.59
-6.00	149.44	-0.19	12.12	-28.29
-7.50	169.93	-0.18	12.22	-30.66
-9.00	153.35	-0.23	12.22	-34.23
-10.50	147.40	-0.20	12.23	-28.77
-12.00	153.74	-0.19	12.22	-29.83
-13.50	155.40	-	12.23	-
-15.00	-	-	11.52	-
-16.50	-	-	10.24	-
-18.00	-	-	-	-



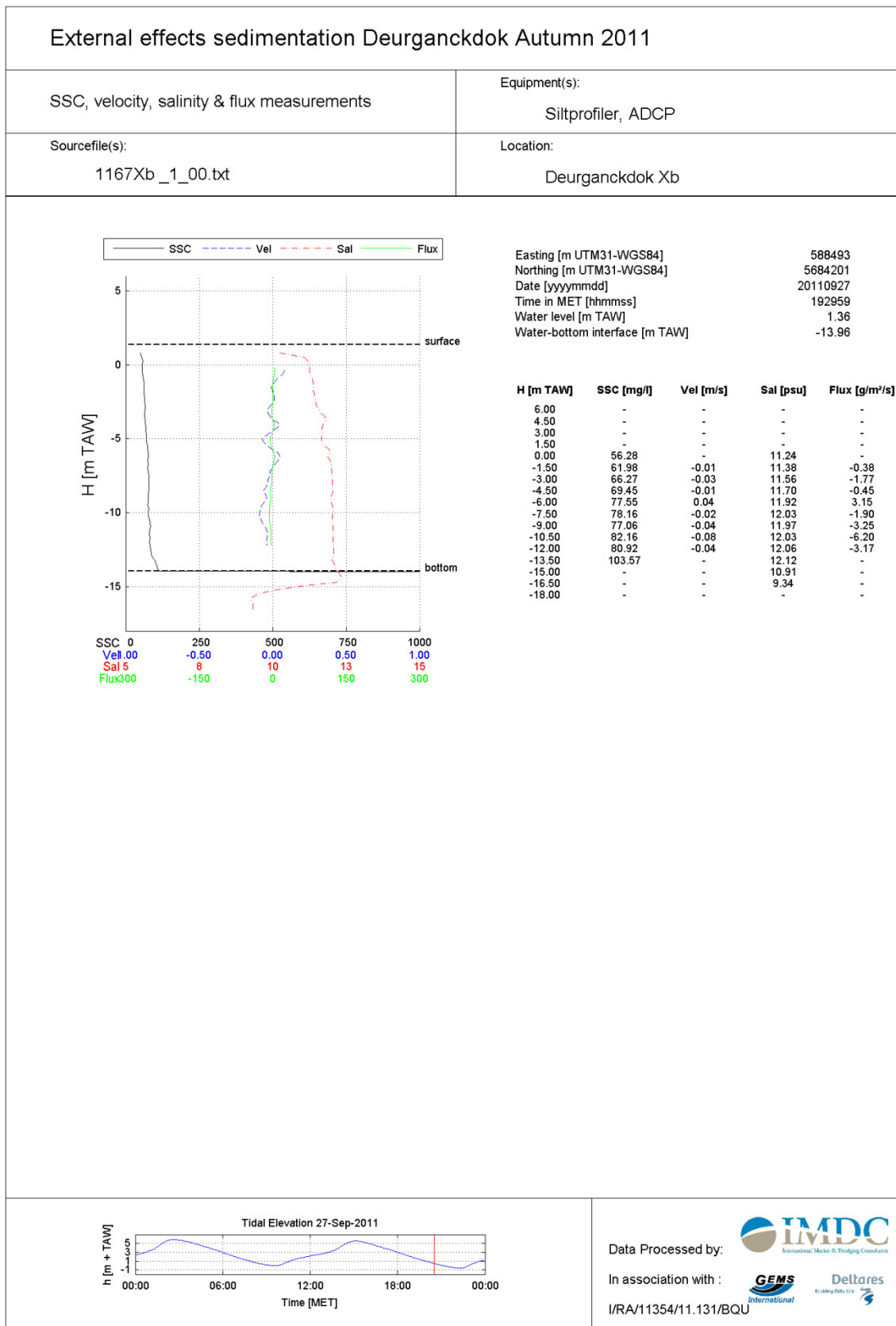
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



D.4 Location Xc

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

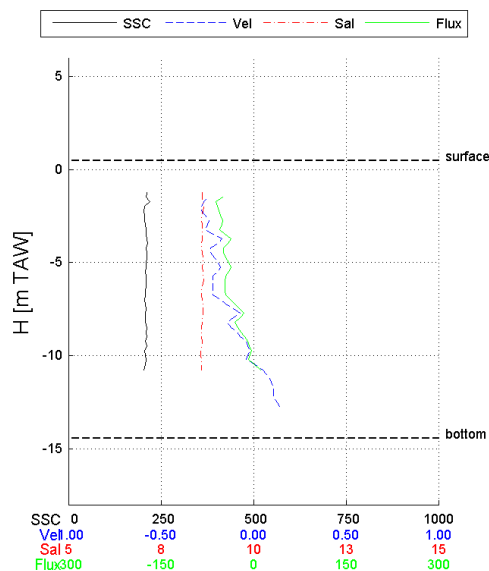
Siltprofiler, ADCP

Sourcefile(s):

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1019Xc_1_00.txt

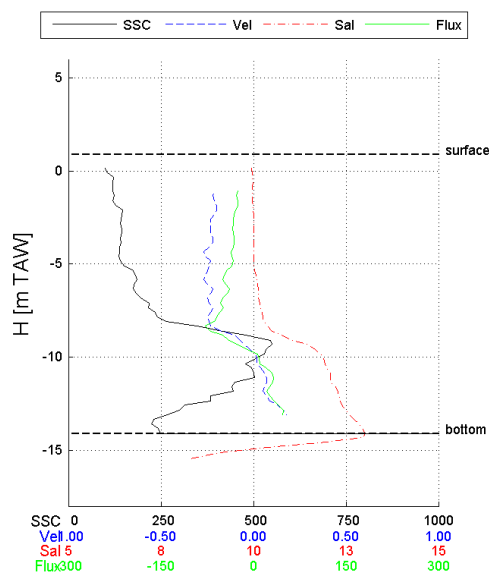
Location:

Deurganckdok Xc



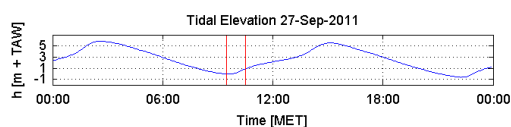
Easting [m UTM31-WGS84] 588549
Northing [m UTM31-WGS84] 5684352
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 082744
Water level [m TAW] 0.48
Water-bottom interface [m TAW] -14.43

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	210.55	-0.24	8.62	-50.87
-3.00	207.65	-0.25	8.61	-51.91
-4.50	212.78	-0.23	8.61	-47.96
-6.00	210.82	-0.22	8.65	-46.59
-7.50	210.35	-0.11	8.64	-22.15
-9.00	211.18	-0.07	8.60	-14.06
-10.50	207.44	0.01	8.60	2.84
-12.00	-	0.11	-	-
-13.50	-	-	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588545
Northing [m UTM31-WGS84] 5684346
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 103149
Water level [m TAW] 0.88
Water-bottom interface [m TAW] -14.09

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	103.51	-	9.95	-
-1.50	121.80	-0.21	9.96	-26.17
-3.00	142.99	-0.23	10.02	-33.32
-4.50	136.76	-0.26	10.01	-35.40
-6.00	180.15	-0.26	10.10	-46.51
-7.50	227.31	-0.23	10.22	-52.42
-9.00	523.80	-0.08	10.95	-42.85
-10.50	489.01	0.03	11.97	17.01
-12.00	405.52	0.06	12.30	24.63
-13.50	226.35	-	12.80	-
-15.00	-	-	9.63	-
-16.50	-	-	-	-
-18.00	-	-	-	-



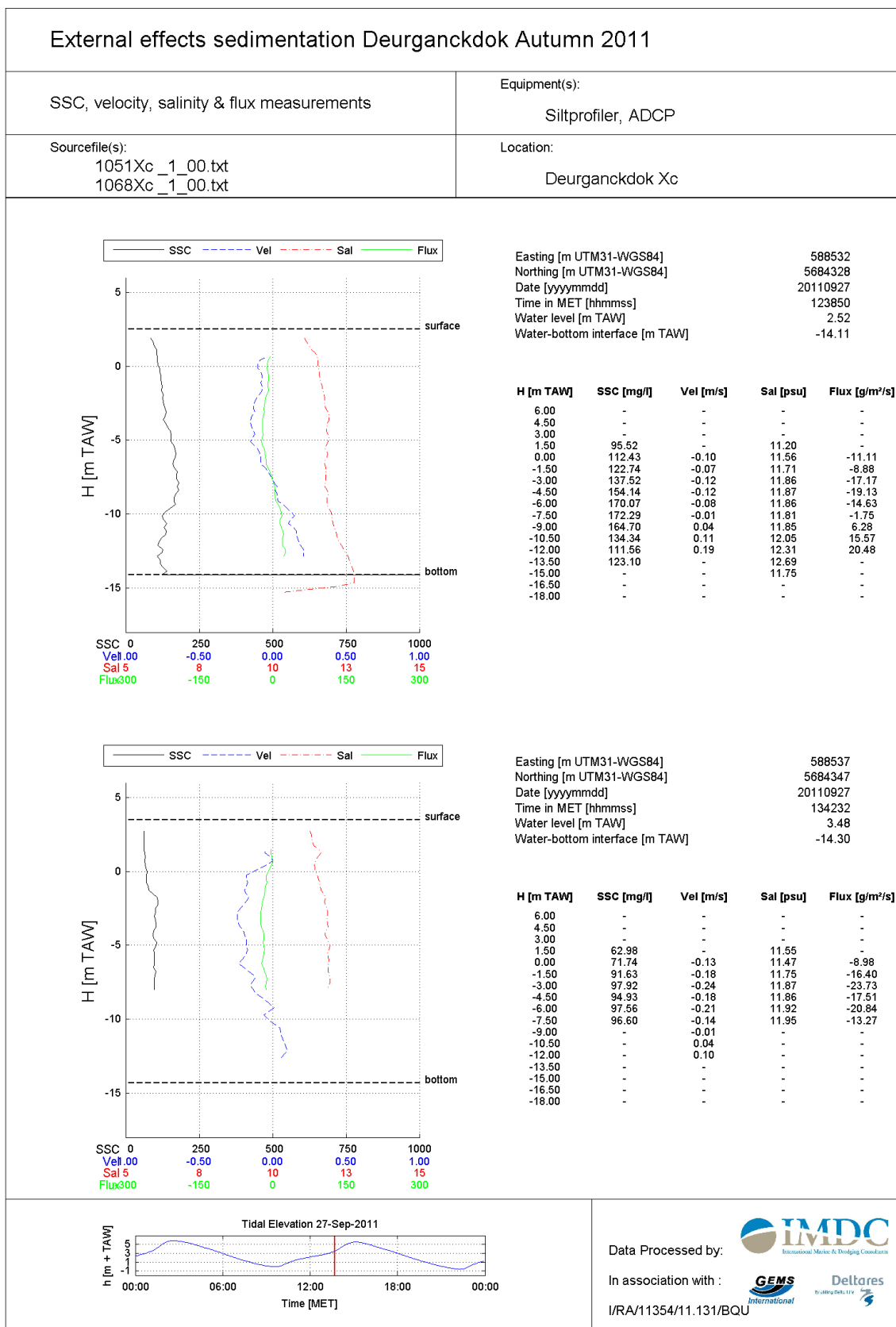
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

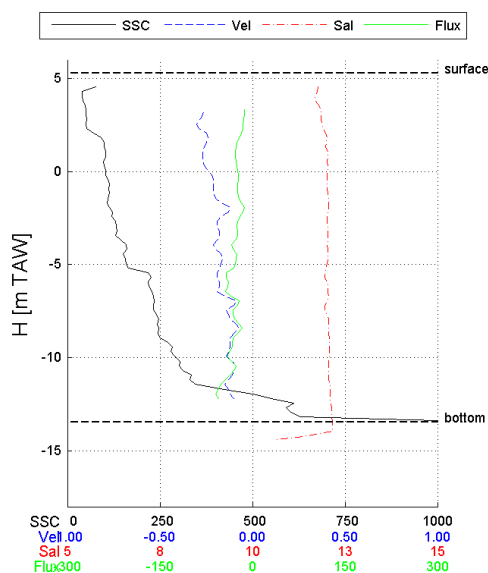
Siltprofiler, ADCP

Sourcefile(s):

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1102Xc_1_00.txt

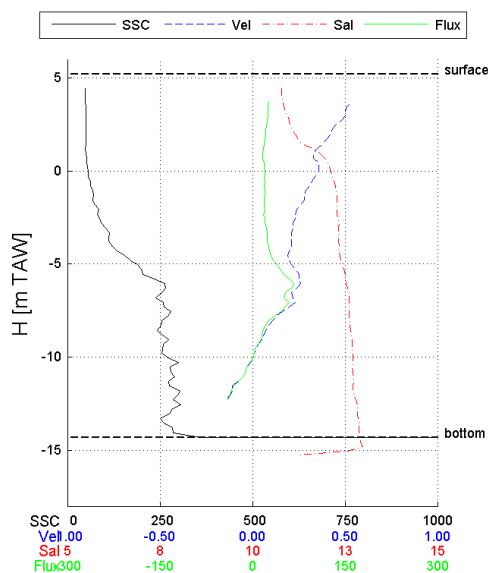
Location:

Deurganckdok Xc



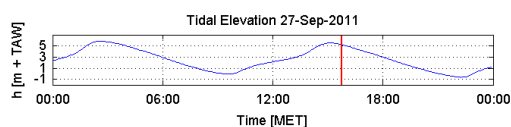
Easting [m UTM31-WGS84] 588566
Northing [m UTM31-WGS84] 5684382
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 144206
Water level [m TAW] 5.30
Water-bottom interface [m TAW] -13.44

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	68.67	-	11.77	-
3.00	50.12	-0.27	11.85	-13.57
1.50	99.56	-0.25	11.99	-25.32
0.00	103.71	-0.23	12.04	-24.05
-1.50	108.97	-0.19	12.05	-20.69
-3.00	132.89	-0.19	12.04	-24.66
-4.50	152.69	-0.17	12.04	-25.31
-6.00	217.92	-0.18	12.02	-39.42
-7.50	234.36	-0.14	11.98	-31.56
-9.00	256.74	-0.12	12.07	-31.57
-10.50	305.02	-0.09	12.06	-27.71
-12.00	514.55	-0.11	12.10	-58.35
-13.50	14281.78	-	12.16	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588562
Northing [m UTM31-WGS84] 5684363
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 154516
Water level [m TAW] 5.20
Water-bottom interface [m TAW] -14.31

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.30	0.50	10.95	24.96
1.50	50.32	0.38	11.32	19.26
0.00	55.38	0.36	12.11	19.78
-1.50	68.39	0.28	12.28	19.12
-3.00	101.81	0.22	12.33	22.21
-4.50	151.70	0.19	12.36	22.24
-6.00	256.73	0.26	12.54	65.50
-7.50	276.54	0.17	12.61	46.99
-9.00	270.29	0.05	12.69	14.46
-10.50	281.83	-0.03	12.69	-8.09
-12.00	300.05	-0.12	12.73	-35.90
-13.50	259.61	-	12.88	-
-15.00	-	-	12.63	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

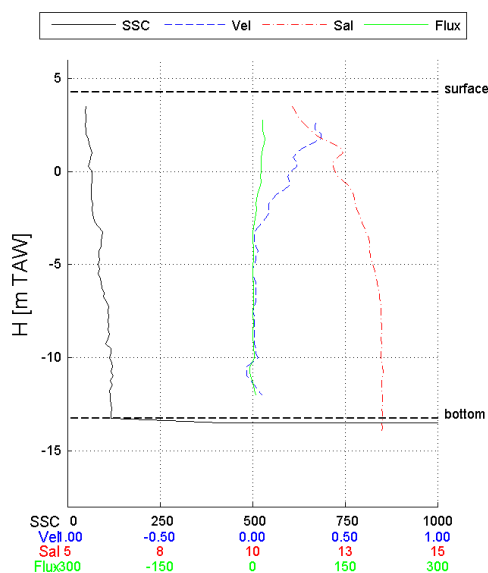
Siltprofiler, ADCP

Sourcefile(s):

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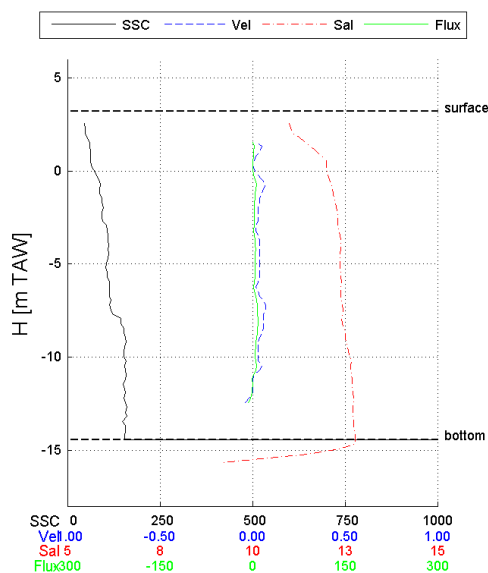
Location:

Deurganckdok Xc



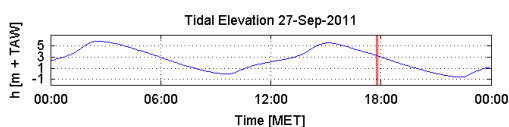
Easting [m UTM31-WGS84] 588551
Northing [m UTM31-WGS84] 5684374
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 164351
Water level [m TAW] 4.25
Water-bottom interface [m TAW] -13.25

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	49.59	-	11.22	-
1.50	59.42	0.32	12.20	18.84
0.00	65.68	0.21	12.23	13.85
-1.50	65.64	0.11	12.75	7.01
-3.00	84.62	0.03	13.02	2.21
-4.50	85.23	0.02	13.18	1.98
-6.00	91.43	0.02	13.37	1.46
-7.50	109.04	0.00	13.48	0.53
-9.00	109.66	0.01	13.47	1.08
-10.50	121.93	-0.03	13.52	-4.08
-12.00	115.39	0.05	13.52	6.01
-13.50	2204.50	-	13.50	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588561
Northing [m UTM31-WGS84] 5684366
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 174849
Water level [m TAW] 3.19
Water-bottom interface [m TAW] -14.44

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	60.98	0.03	11.46	1.37
0.00	73.01	0.02	12.00	1.13
-1.50	93.11	0.04	12.22	3.89
-3.00	106.53	0.02	12.31	2.27
-4.50	110.74	0.04	12.37	4.47
-6.00	112.80	0.03	12.40	2.91
-7.50	118.95	0.07	12.44	7.75
-9.00	157.26	0.04	12.53	6.10
-10.50	156.06	0.05	12.66	6.69
-12.00	156.02	-0.01	12.72	-1.36
-13.50	151.48	-	12.73	-
-15.00	-	-	12.15	-
-16.50	-	-	-	-
-18.00	-	-	-	-



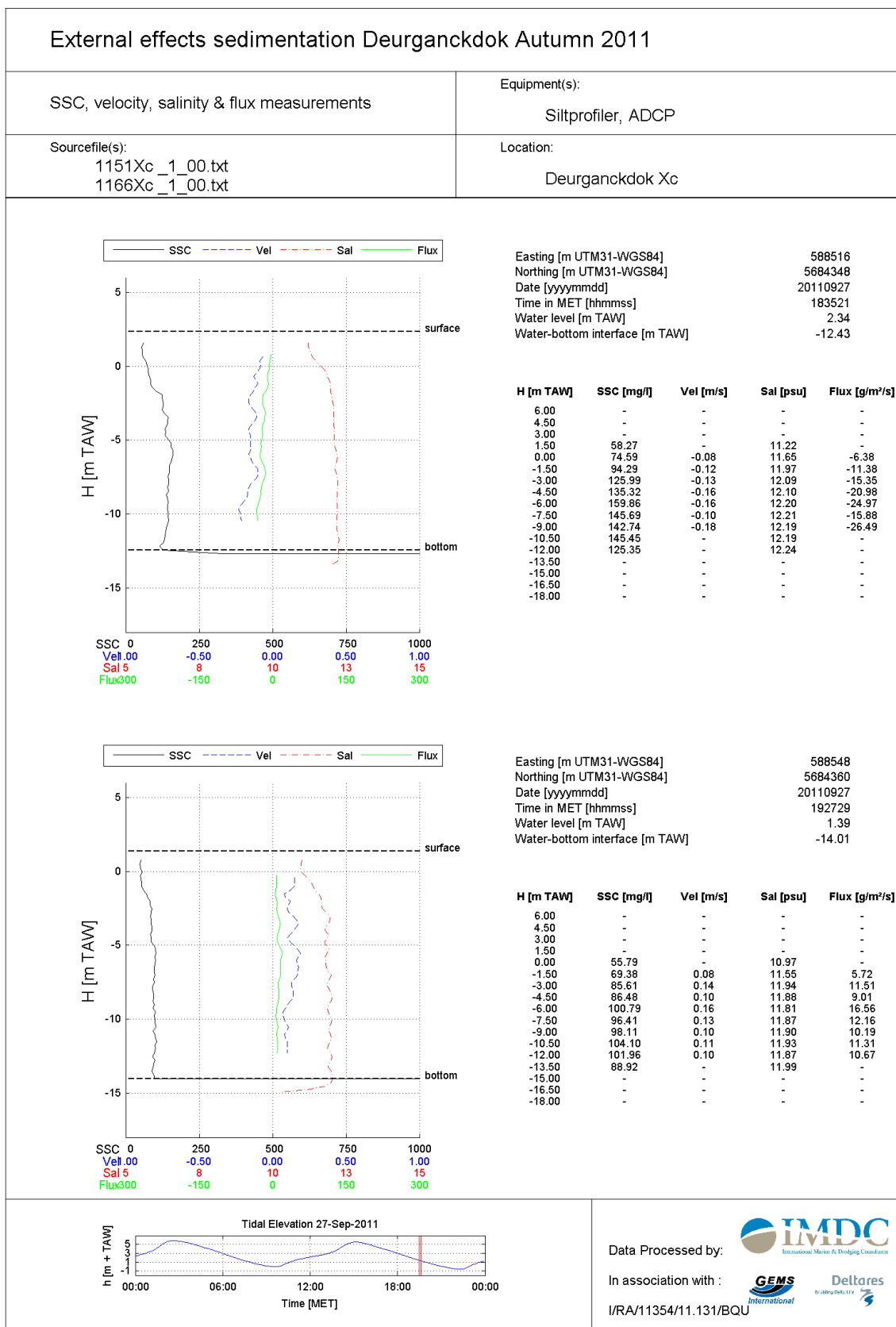
Data Processed by:



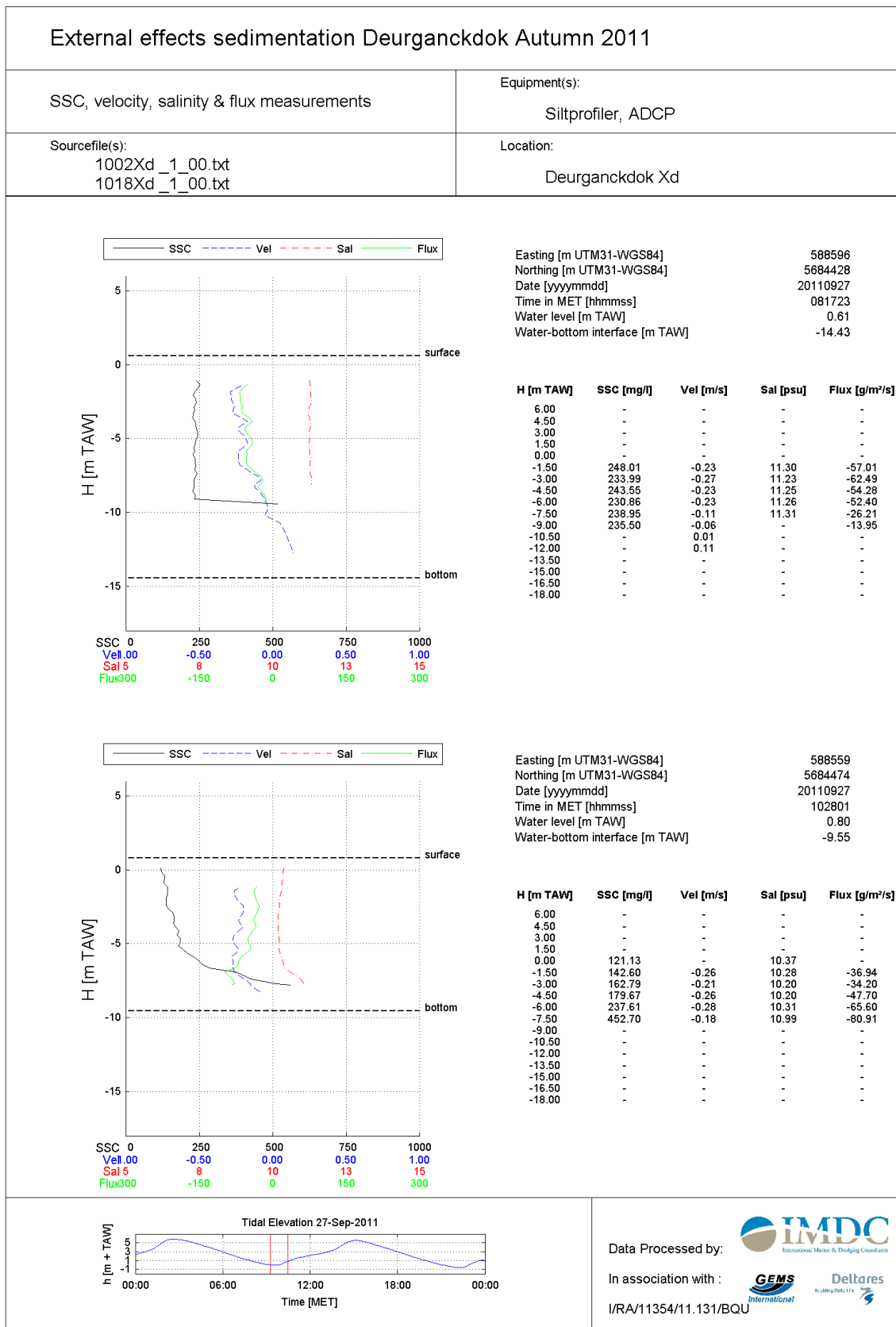
In association with:



I/RA/11354/11.131/BQU



D.5 Location Xd



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

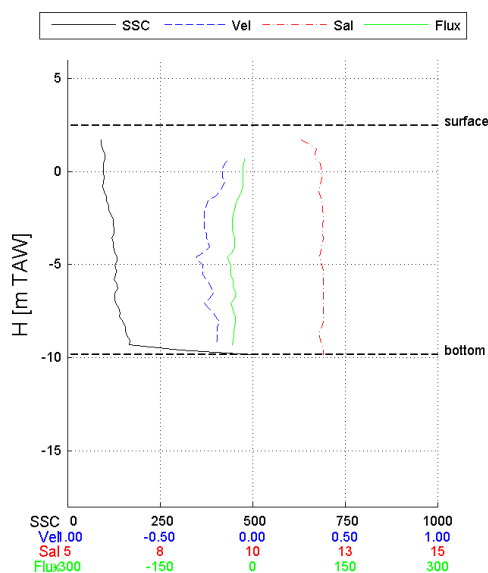
Siltprofiler, ADCP

Sourcefile(s):

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1067Xd_1_00.txt

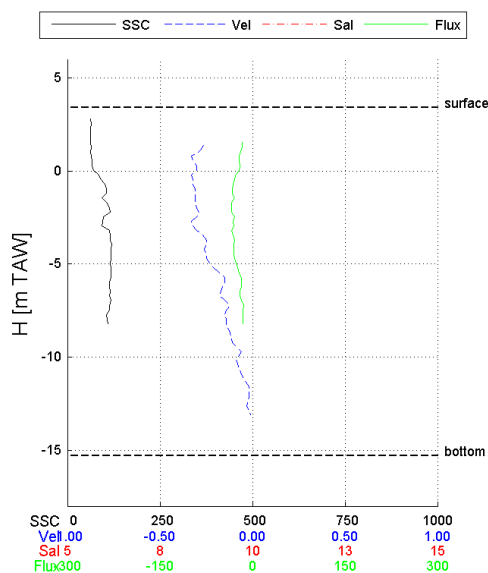
Location:

Deurganckdok Xd



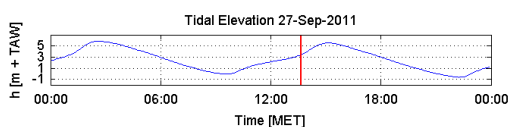
Easting [m UTM31-WGS84] 588571
Northing [m UTM31-WGS84] 5684483
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 123541
Water level [m TAW] 2.48
Water-bottom interface [m TAW] -9.83

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	91.24	-	11.50	-
0.00	97.59	-0.16	11.86	-15.37
-1.50	105.51	-0.23	11.86	-24.19
-3.00	125.03	-0.26	11.89	-32.10
-4.50	132.04	-0.29	11.82	-37.89
-6.00	132.78	-0.23	11.91	-31.25
-7.50	141.01	-0.22	11.91	-30.84
-9.00	167.35	-0.19	11.83	-31.42
-10.50	-	-	-	-
-12.00	-	-	-	-
-13.50	-	-	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588579
Northing [m UTM31-WGS84] 5684417
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 133927
Water level [m TAW] 3.40
Water-bottom interface [m TAW] -15.30

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	63.38	-0.26	-	-16.76
0.00	73.48	-0.31	-	-22.76
-1.50	95.90	-0.31	-	-29.81
-3.00	98.21	-0.32	-	-30.58
-4.50	117.09	-0.25	-	-29.52
-6.00	114.16	-0.15	-	-17.64
-7.50	111.77	-0.14	-	-15.32
-9.00	-	-0.11	-	-
-10.50	-	-0.07	-	-
-12.00	-	-0.02	-	-
-13.50	-	-	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

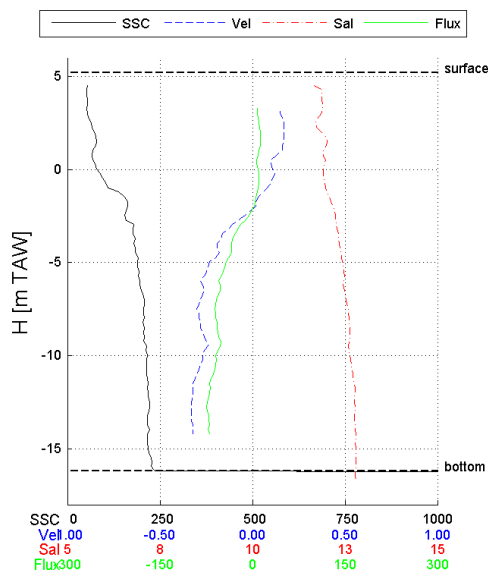
Siltprofiler, ADCP

Sourcefile(s):

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1101Xd_1_00.txt

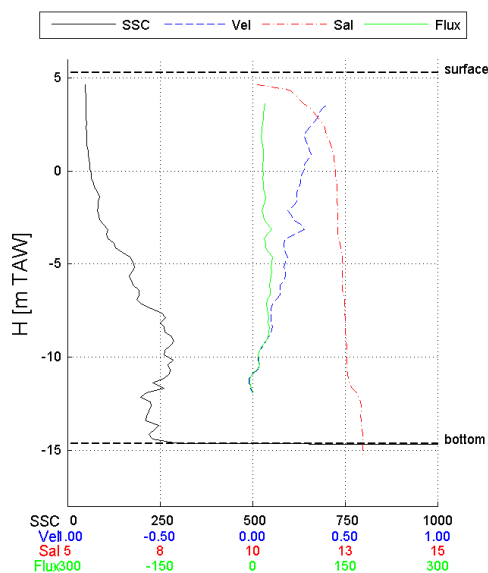
Location:

Deurganckdok Xd



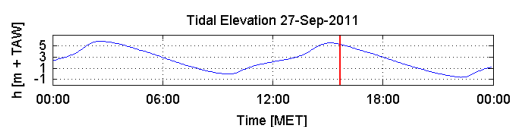
Easting [m UTM31-WGS84] 588600
Northing [m UTM31-WGS84] 5684433
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 143801
Water level [m TAW] 5.22
Water-bottom interface [m TAW] -16.20

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	54.16	-	11.69	-
3.00	55.55	0.15	11.86	8.37
1.50	79.00	0.17	12.02	13.25
0.00	80.46	0.11	11.92	9.16
-1.50	155.24	0.03	12.08	4.80
-3.00	179.20	-0.11	12.27	-20.14
-4.50	185.26	-0.18	12.39	-34.06
-6.00	194.81	-0.28	12.47	-54.27
-7.50	206.58	-0.30	12.59	-61.01
-9.00	206.96	-0.26	12.63	-54.19
-10.50	214.59	-0.28	12.67	-59.30
-12.00	217.65	-0.32	12.77	-70.06
-13.50	216.02	-0.33	12.76	-70.34
-15.00	219.16	-	12.79	-
-16.50	16295.49	-	12.78	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588574
Northing [m UTM31-WGS84] 5684418
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 154134
Water level [m TAW] 5.27
Water-bottom interface [m TAW] -14.65

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	48.28	-	10.55	-
3.00	49.35	0.36	11.72	17.65
1.50	53.10	0.29	12.11	15.79
0.00	62.08	0.28	12.24	17.04
-1.50	86.01	0.24	12.28	20.77
-3.00	102.27	0.27	12.30	27.58
-4.50	158.06	0.18	12.42	29.16
-6.00	175.29	0.16	12.42	28.18
-7.50	238.23	0.10	12.49	24.19
-9.00	284.94	0.08	12.53	23.24
-10.50	273.66	0.04	12.56	10.15
-12.00	208.22	-	12.83	-
-13.50	225.35	-	12.94	-
-15.00	25634.64	-	12.98	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

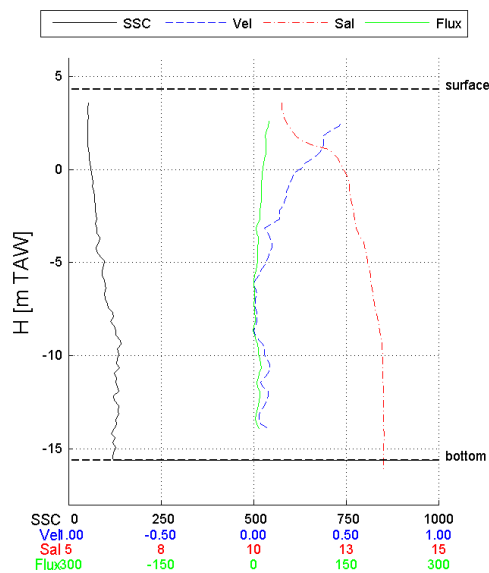
Siltprofiler, ADCP

Sourcefile(s):

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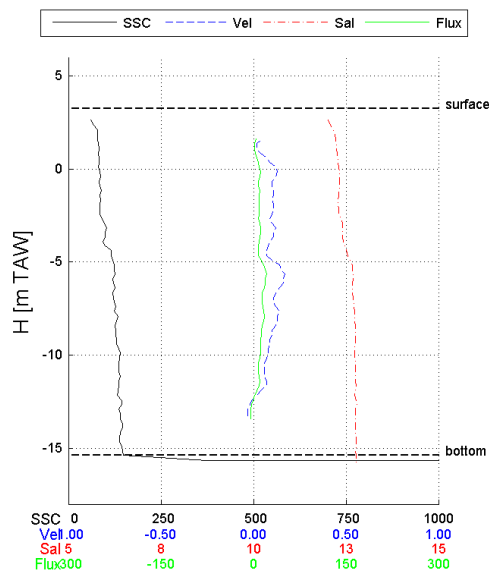
Location:

Deurganckdok Xd



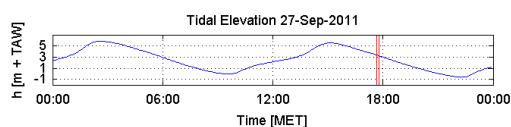
Easting [m UTM31-WGS84] 588597
Northing [m UTM31-WGS84] 5684430
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 163951
Water level [m TAW] 4.30
Water-bottom interface [m TAW] -15.61

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	52.35	-	10.80	-
1.50	52.10	0.38	11.38	19.88
0.00	61.34	0.25	12.44	15.00
-1.50	70.88	0.18	12.62	12.52
-3.00	75.12	0.08	12.77	6.31
-4.50	80.09	0.09	13.05	6.65
-6.00	97.62	0.01	13.18	0.86
-7.50	111.07	0.01	13.30	1.51
-9.00	132.54	0.02	13.45	2.44
-10.50	132.30	0.09	13.49	12.12
-12.00	131.49	0.08	13.51	10.39
-13.50	128.36	0.03	13.51	4.20
-15.00	125.86	-	13.52	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588588
Northing [m UTM31-WGS84] 5684459
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 174608
Water level [m TAW] 3.25
Water-bottom interface [m TAW] -15.38

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	79.31	0.04	12.23	3.19
0.00	83.10	0.12	12.31	10.26
-1.50	85.23	0.11	12.30	9.17
-3.00	99.53	0.11	12.40	10.87
-4.50	115.81	0.07	12.53	8.45
-6.00	120.59	0.16	12.69	19.34
-7.50	126.73	0.13	12.72	16.24
-9.00	128.56	0.10	12.76	12.20
-10.50	136.36	0.06	12.75	8.25
-12.00	133.67	0.03	12.75	4.29
-13.50	142.48	-	12.75	-
-15.00	144.95	-	12.77	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

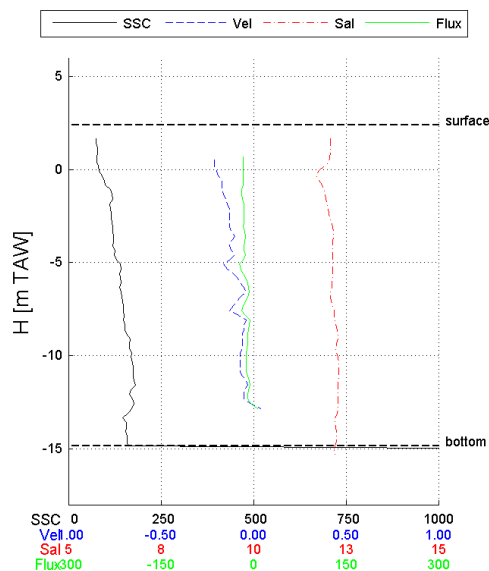
Siltprofiler, ADCP

Sourcefile(s):

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1165Xd_1_00.txt

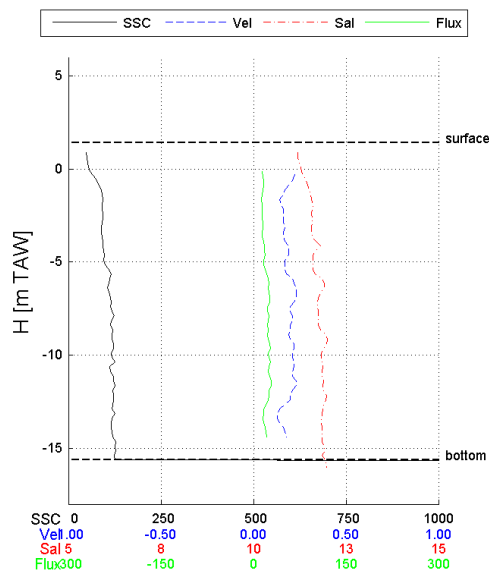
Location:

Deurganckdok Xd



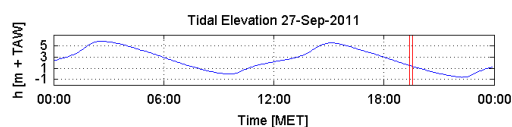
Easting [m UTM31-WGS84] 588578
Northing [m UTM31-WGS84] 5684440
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 183247
Water level [m TAW] 2.39
Water-bottom interface [m TAW] -14.85

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	74.73	-	12.08	-
0.00	81.57	-0.20	11.81	-16.69
-1.50	119.02	-0.15	11.95	-18.14
-3.00	119.84	-0.13	12.14	-16.02
-4.50	124.77	-0.11	12.14	-13.40
-6.00	141.36	-0.08	12.13	-10.24
-7.50	148.55	-0.12	12.17	-18.10
-9.00	163.34	-0.06	12.28	-9.47
-10.50	173.83	-0.07	12.30	-12.20
-12.00	166.85	-0.05	12.29	-8.44
-13.50	153.67	-	12.20	-
-15.00	1394.13	-	12.19	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588602
Northing [m UTM31-WGS84] 5684444
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 192442
Water level [m TAW] 1.42
Water-bottom interface [m TAW] -15.63

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	56.75	-	11.30	-
-1.50	93.00	0.15	11.56	13.80
-3.00	90.57	0.16	11.57	15.04
-4.50	96.04	0.19	11.65	18.24
-6.00	111.58	0.21	11.88	24.10
-7.50	115.88	0.20	11.74	23.09
-9.00	118.06	0.19	11.97	22.97
-10.50	118.35	0.22	11.87	26.35
-12.00	121.09	0.21	11.93	24.95
-13.50	116.97	0.14	11.84	15.87
-15.00	126.30	-	11.93	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:

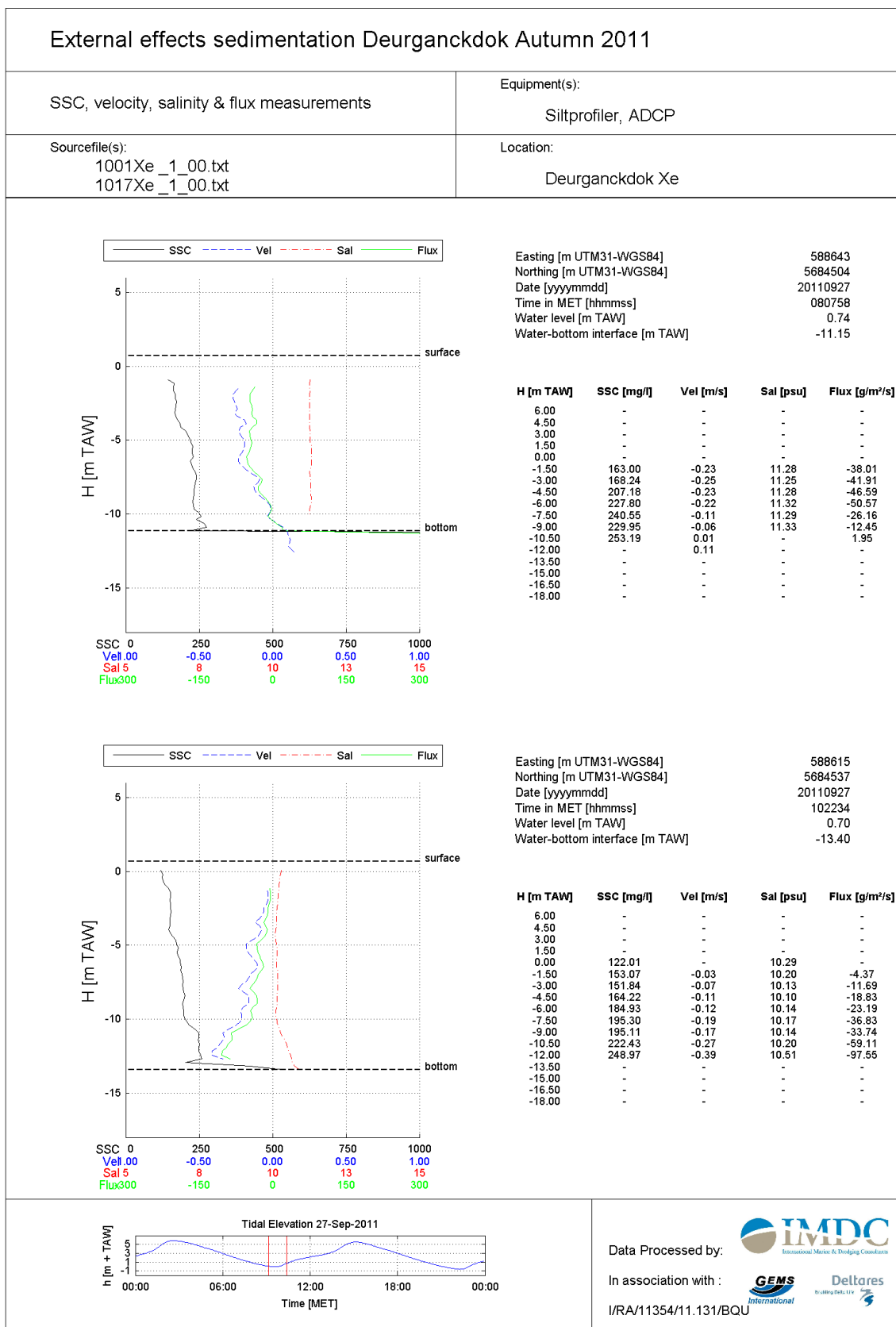


In association with:



I/RA/11354/11.131/BQU

D.6 Location Xe



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

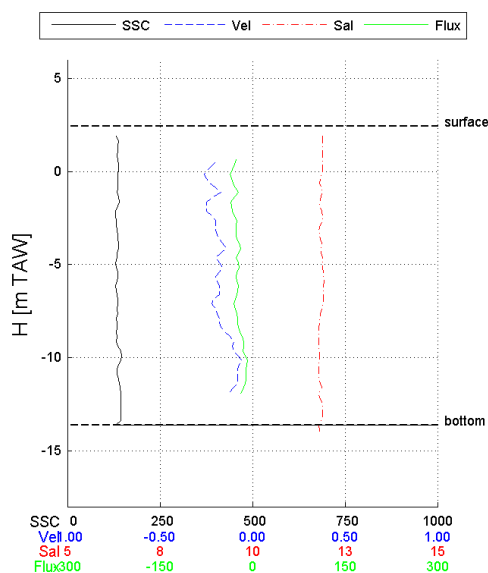
Siltprofiler, ADCP

Sourcefile(s):

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1066Xe_1_00.txt

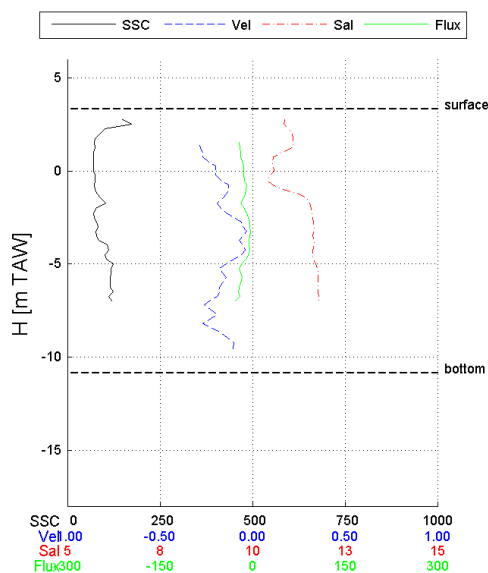
Location:

Deurganckdok Xe



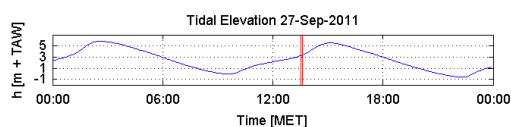
Easting [m UTM31-WGS84] 588586
Northing [m UTM31-WGS84] 5684559
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 123158
Water level [m TAW] 2.45
Water-bottom interface [m TAW] -13.62

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	136.63	-	11.90	-
0.00	136.62	-0.25	11.89	-34.22
-1.50	139.19	-0.23	11.84	-32.04
-3.00	133.42	-0.20	11.82	-26.47
-4.50	133.85	-0.19	11.87	-24.87
-6.00	132.23	-0.19	11.93	-24.09
-7.50	135.14	-0.20	11.85	-26.44
-9.00	133.18	-0.11	11.79	-15.06
-10.50	135.99	-0.08	11.78	-9.97
-12.00	143.89	-	11.80	-
-13.50	137.54	-	11.82	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588574
Northing [m UTM31-WGS84] 5684496
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 133609
Water level [m TAW] 3.33
Water-bottom interface [m TAW] -10.85

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	73.04	-0.29	11.10	-21.14
0.00	70.94	-0.20	10.58	-13.90
-1.50	92.37	-0.16	11.50	-15.15
-3.00	83.05	-0.05	11.66	-3.77
-4.50	102.73	-0.06	11.63	-6.90
-6.00	115.09	-0.16	11.78	-18.94
-7.50	-	-0.22	-	-
-9.00	-	-0.13	-	-
-10.50	-	-	-	-
-12.00	-	-	-	-
-13.50	-	-	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

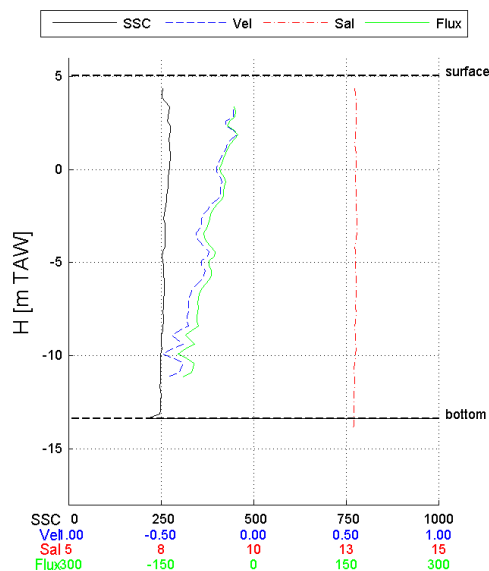
Siltprofiler, ADCP

Sourcefile(s):

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1099Xe_1_00.txt

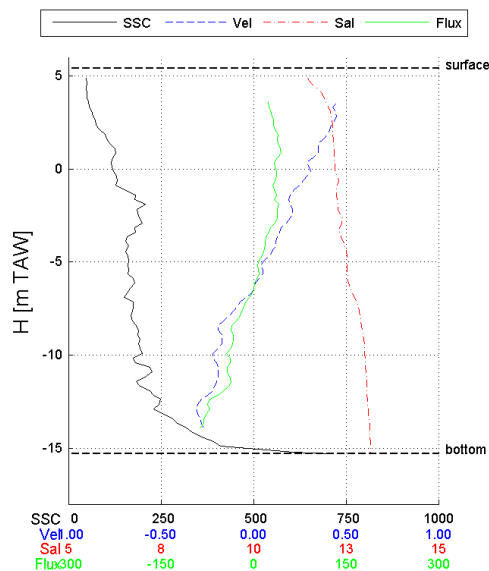
Location:

Deurganckdok Xe



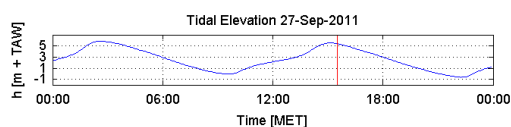
Easting [m UTM31-WGS84] 588589
Northing [m UTM31-WGS84] 5684522
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 143059
Water level [m TAW] 5.05
Water-bottom interface [m TAW] -13.37

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	269.82	-0.11	12.78	-29.46
1.50	272.87	-0.13	12.75	-35.01
0.00	272.36	-0.20	12.77	-54.62
-1.50	265.54	-0.19	12.77	-50.18
-3.00	261.34	-0.28	12.79	-73.89
-4.50	254.70	-0.24	12.75	-62.44
-6.00	258.96	-0.29	12.78	-73.68
-7.50	255.76	-0.35	12.76	-89.80
-9.00	251.32	-0.43	12.75	-106.74
-10.50	249.75	-0.38	12.72	-96.95
-12.00	249.33	-	12.72	-
-13.50	15041.54	-	12.71	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588629
Northing [m UTM31-WGS84] 5684536
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 153034
Water level [m TAW] 5.39
Water-bottom interface [m TAW] -15.30

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	49.51	-	11.62	-
3.00	64.70	0.44	12.09	28.91
1.50	107.02	0.37	12.16	39.15
0.00	120.54	0.30	12.21	36.25
-1.50	180.86	0.20	12.26	35.82
-3.00	191.40	0.17	12.36	32.22
-4.50	156.91	0.10	12.52	15.35
-6.00	177.29	0.02	12.55	4.14
-7.50	173.79	-0.10	12.84	-17.49
-9.00	190.06	-0.17	12.97	-32.36
-10.50	196.83	-0.20	13.02	-39.01
-12.00	224.07	-0.23	13.07	-52.20
-13.50	286.82	-0.29	13.13	-80.74
-15.00	483.30	-	13.17	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

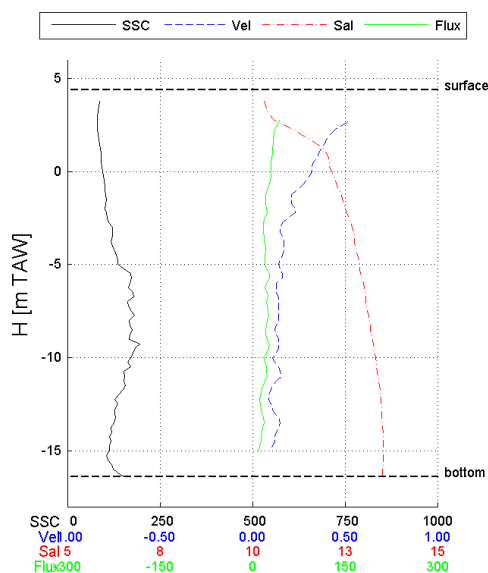
Siltprofiler, ADCP

Sourcefile(s):

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1133Xe_1_00.txt

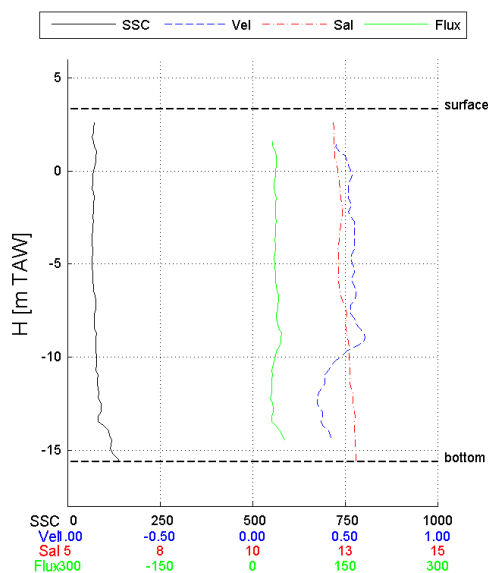
Location:

Deurganckdok Xe



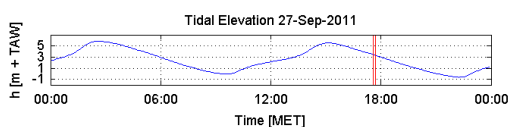
Easting [m UTM31-WGS84] 588650
Northing [m UTM31-WGS84] 5684607
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 163507
Water level [m TAW] 4.39
Water-bottom interface [m TAW] -16.39

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	81.38	-	10.49	-
1.50	86.85	0.39	11.75	33.41
0.00	94.42	0.32	12.14	29.78
-1.50	105.50	0.21	12.43	21.71
-3.00	122.77	0.15	12.70	18.18
-4.50	133.33	0.16	12.84	20.76
-6.00	169.31	0.13	13.00	22.24
-7.50	173.19	0.14	13.11	24.96
-9.00	167.74	0.14	13.24	23.61
-10.50	170.10	0.14	13.36	23.21
-12.00	136.69	0.09	13.46	12.58
-13.50	125.04	0.15	13.50	19.01
-15.00	113.57	-	13.53	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588634
Northing [m UTM31-WGS84] 5684562
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 174154
Water level [m TAW] 3.32
Water-bottom interface [m TAW] -15.63

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	71.02	0.46	12.21	32.37
0.00	71.09	0.53	12.31	37.74
-1.50	72.58	0.52	12.39	38.13
-3.00	68.69	0.55	12.36	37.65
-4.50	67.39	0.54	12.32	36.14
-6.00	69.69	0.54	12.33	38.06
-7.50	76.02	0.53	12.54	40.45
-9.00	76.52	0.61	12.59	46.29
-10.50	78.88	0.42	12.63	33.44
-12.00	84.53	0.36	12.71	30.02
-13.50	86.46	0.37	12.76	32.60
-15.00	117.72	-	12.79	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

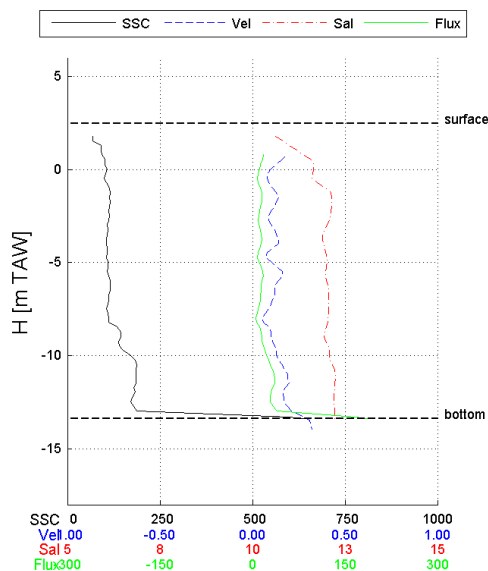
Siltprofiler, ADCP

Sourcefile(s):

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1164Xe_1_00.txt

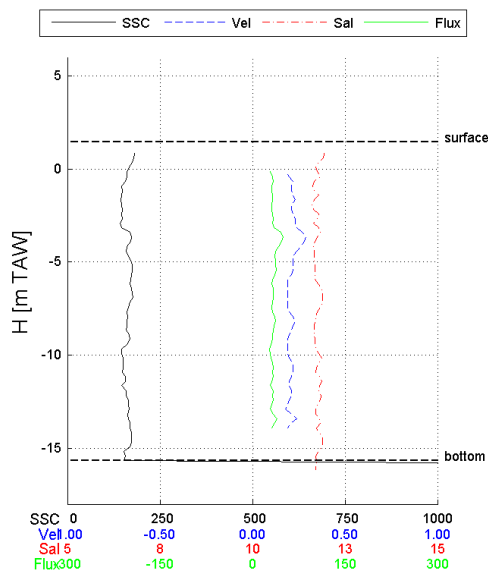
Location:

Deurganckdok Xe



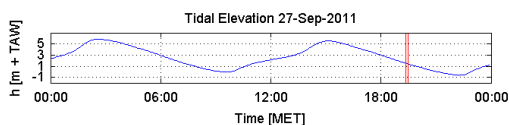
Easting [m UTM31-WGS84] 588624
Northing [m UTM31-WGS84] 5684541
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 182847
Water level [m TAW] 2.47
Water-bottom interface [m TAW] -13.37

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	70.67	-	10.84	-
0.00	106.13	0.10	11.64	10.69
-1.50	114.34	0.14	12.15	15.46
-3.00	107.19	0.10	12.01	11.33
-4.50	107.90	0.08	11.98	8.59
-6.00	115.37	0.14	12.01	15.53
-7.50	107.02	0.09	12.05	9.39
-9.00	142.80	0.10	11.94	15.12
-10.50	187.70	0.16	12.17	29.77
-12.00	182.33	0.16	12.21	29.87
-13.50	-	0.31	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588631
Northing [m UTM31-WGS84] 5684521
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 192151
Water level [m TAW] 1.47
Water-bottom interface [m TAW] -15.66

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	164.90	-	11.74	-
-1.50	146.03	0.22	11.76	32.76
-3.00	144.17	0.23	11.70	33.46
-4.50	161.71	0.23	11.67	37.37
-6.00	170.21	0.19	11.72	32.58
-7.50	163.75	0.19	11.80	32.05
-9.00	166.93	0.20	11.68	32.56
-10.50	150.53	0.22	11.77	33.14
-12.00	158.16	0.21	11.82	33.15
-13.50	166.99	0.23	11.83	38.17
-15.00	164.30	-	11.84	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

D.7 Location Ya

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

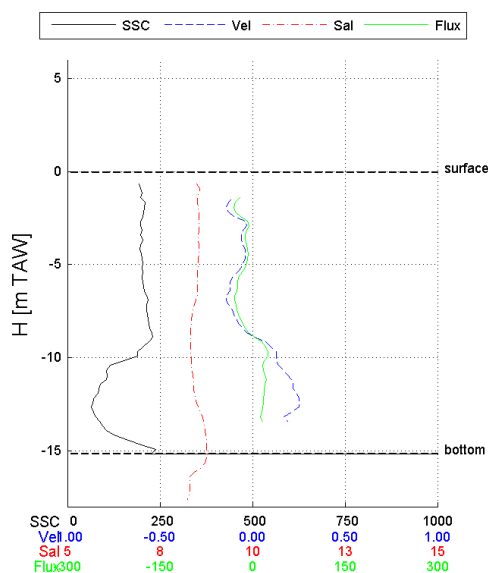
Siltprofiler, ADCP

Sourcefile(s):

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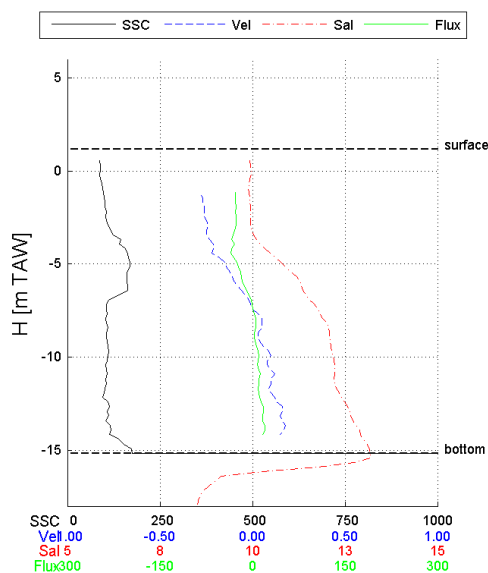
Location:

Deurganckdok Ya



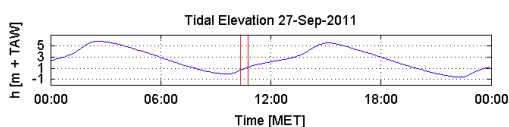
Easting [m UTM31-WGS84] 588533
Northing [m UTM31-WGS84] 5684118
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 091938
Water level [m TAW] -0.05
Water-bottom interface [m TAW] -15.17

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	202.23	-0.11	8.52	-23.41
-3.00	199.44	-0.04	8.55	-6.70
-4.50	199.71	-0.04	8.54	-7.29
-6.00	204.31	-0.12	8.51	-24.37
-7.50	215.42	-0.11	8.39	-23.92
-9.00	226.99	0.03	8.32	7.56
-10.50	111.69	0.15	8.37	17.01
-12.00	78.98	0.24	8.45	19.11
-13.50	89.09	-	8.69	-
-15.00	234.95	-	8.77	-
-16.50	-	-	8.31	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588472
Northing [m UTM31-WGS84] 5684056
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 104523
Water level [m TAW] 1.16
Water-bottom interface [m TAW] -15.17

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	88.17	-	9.97	-
-1.50	100.05	-0.27	9.92	-27.20
-3.00	112.48	-0.24	9.95	-27.55
-4.50	163.93	-0.21	10.53	-33.84
-6.00	161.94	-0.09	11.29	-15.09
-7.50	105.56	0.01	11.79	1.19
-9.00	106.79	0.03	12.09	3.68
-10.50	104.91	0.09	12.23	9.28
-12.00	98.66	0.11	12.36	10.26
-13.50	107.88	0.17	12.74	17.97
-15.00	173.47	-	13.17	-
-16.50	-	-	9.08	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

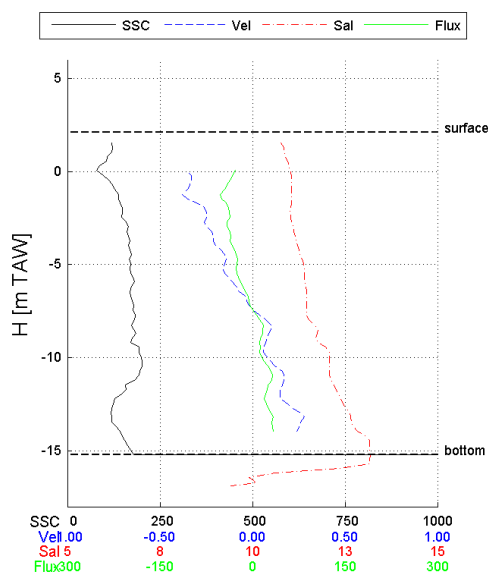
Siltprofiler, ADCP

Sourcefile(s):

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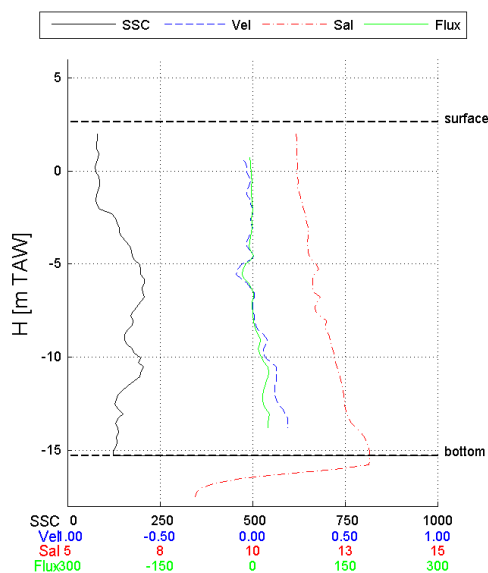
Location:

Deurganckdok Ya



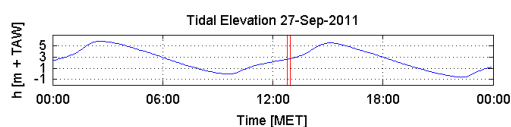
Easting [m UTM31-WGS84] 588506
Northing [m UTM31-WGS84] 5684070
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 115806
Water level [m TAW] 2.10
Water-bottom interface [m TAW] -15.20

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	120.18	-	10.78	-
0.00	82.47	-0.35	11.03	-29.17
-1.50	139.78	-0.34	11.06	-48.52
-3.00	164.75	-0.25	11.09	-40.15
-4.50	172.34	-0.15	11.30	-25.89
-6.00	178.25	-0.10	11.44	-18.40
-7.50	179.01	0.01	11.46	1.92
-9.00	173.76	0.08	11.72	13.15
-10.50	200.54	0.13	12.07	26.16
-12.00	143.59	0.15	12.33	21.18
-13.50	122.50	0.26	12.68	31.60
-15.00	173.05	-	13.17	-
-16.50	-	-	9.97	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588494
Northing [m UTM31-WGS84] 5684057
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 124805
Water level [m TAW] 2.62
Water-bottom interface [m TAW] -15.29

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	79.83	-	11.19	-
0.00	76.86	-0.03	11.20	-2.32
-1.50	77.56	-0.01	11.32	-1.16
-3.00	138.94	-0.00	11.50	-0.41
-4.50	175.53	0.01	11.52	1.44
-6.00	208.24	-0.03	11.62	-7.12
-7.50	180.13	0.00	11.71	0.10
-9.00	154.77	0.08	12.10	12.47
-10.50	203.99	0.13	12.28	25.17
-12.00	138.14	0.12	12.47	16.56
-13.50	129.90	0.19	12.66	24.78
-15.00	125.35	-	13.17	-
-16.50	-	-	9.82	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

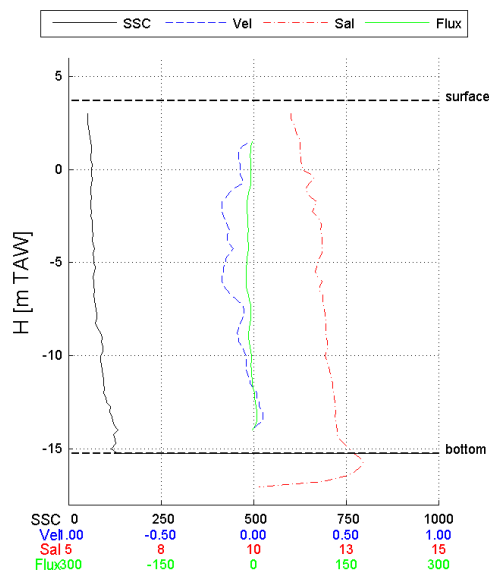
Siltprofiler, ADCP

Sourcefile(s):

1071Ya_1_00.txt
1088Ya_1_00.txt

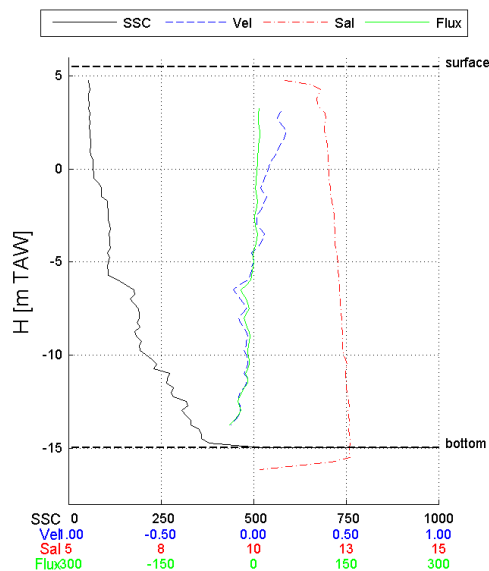
Location:

Deurganckdok Ya



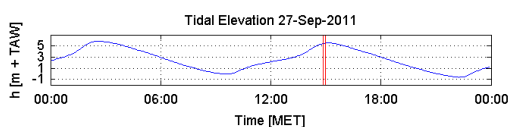
Easting [m UTM31-WGS84] 588502
Northing [m UTM31-WGS84] 5684079
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 135140
Water level [m TAW] 3.70
Water-bottom interface [m TAW] -15.24

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	60.88	-0.02	11.27	-1.43
0.00	61.77	-0.07	11.34	-4.11
-1.50	62.39	-0.15	11.57	-9.59
-3.00	64.15	-0.14	11.84	-8.99
-4.50	66.97	-0.13	11.86	-8.99
-6.00	69.60	-0.17	11.85	-11.63
-7.50	74.88	-0.05	11.91	-4.04
-9.00	90.82	-0.08	11.98	-7.63
-10.50	89.58	-0.04	12.02	-3.78
-12.00	95.58	0.02	12.17	1.54
-13.50	119.26	0.05	12.22	5.50
-15.00	116.56	-	12.59	-
-16.50	-	-	12.43	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588457
Northing [m UTM31-WGS84] 5684173
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 145739
Water level [m TAW] 5.50
Water-bottom interface [m TAW] -14.98

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	56.34	-	11.60	-
3.00	58.21	0.14	11.94	8.02
1.50	59.66	0.16	11.98	9.18
0.00	67.20	0.08	12.04	5.62
-1.50	90.82	0.07	12.10	6.05
-3.00	111.48	0.02	12.18	2.77
-4.50	106.74	-0.01	12.24	-0.70
-6.00	136.68	-0.04	12.31	-6.47
-7.50	188.72	-0.04	12.36	-6.99
-9.00	184.73	-0.03	12.41	-5.70
-10.50	238.71	-0.03	12.53	-6.46
-12.00	278.39	-0.07	12.54	-19.38
-13.50	330.79	-0.10	12.60	-32.12
-15.00	2801.42	-	12.60	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

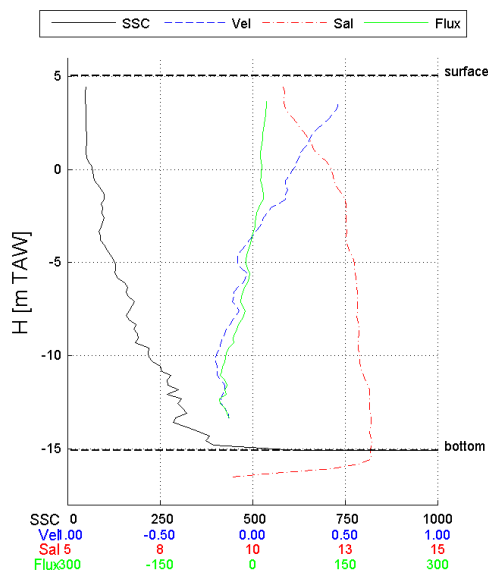
Siltprofiler, ADCP

Sourcefile(s):

1105Ya_1_00.txt
1122Ya_1_00.txt

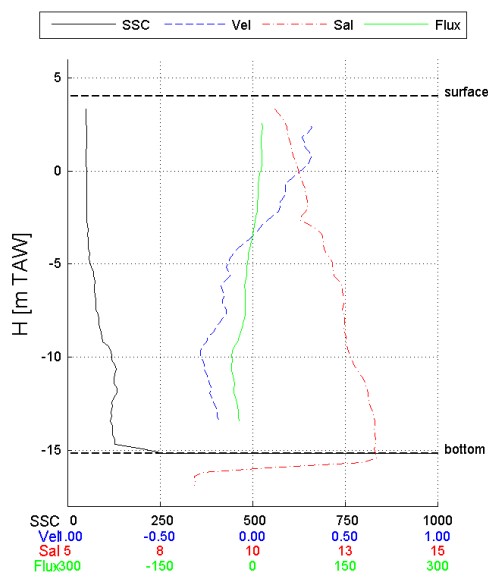
Location:

Deurganckdok Ya



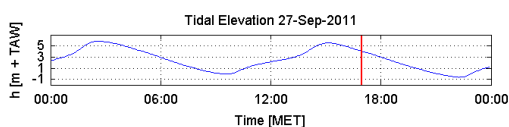
Easting [m UTM31-WGS84] 588511
Northing [m UTM31-WGS84] 5684089
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 155523
Water level [m TAW] 5.06
Water-bottom interface [m TAW] -15.08

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	49.56	0.44	11.00	21.57
1.50	51.98	0.30	11.58	15.92
0.00	67.98	0.22	12.13	14.79
-1.50	100.29	0.18	12.47	17.90
-3.00	92.82	0.04	12.54	4.35
-4.50	112.05	-0.07	12.66	-8.25
-6.00	148.39	-0.05	12.80	-7.23
-7.50	169.25	-0.08	12.83	-13.30
-9.00	191.61	-0.16	12.86	-30.32
-10.50	245.23	-0.19	12.91	-47.24
-12.00	280.38	-0.16	13.16	-43.34
-13.50	288.54	-	13.20	-
-15.00	555.36	-	13.19	-
-16.50	-	-	9.50	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588508
Northing [m UTM31-WGS84] 5684089
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 165837
Water level [m TAW] 4.01
Water-bottom interface [m TAW] -15.16

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.15	-	10.73	-
1.50	52.03	0.28	11.03	14.38
0.00	51.45	0.26	11.25	13.14
-1.50	52.58	0.16	11.47	8.52
-3.00	55.29	0.04	11.62	2.49
-4.50	59.41	-0.11	12.03	-6.57
-6.00	73.57	-0.16	12.37	-11.53
-7.50	78.72	-0.14	12.44	-11.20
-9.00	93.82	-0.24	12.53	-22.71
-10.50	129.42	-0.26	12.77	-33.86
-12.00	132.25	-0.23	13.12	-29.61
-13.50	118.14	-	13.30	-
-15.00	223.95	-	13.30	-
-16.50	-	-	8.44	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

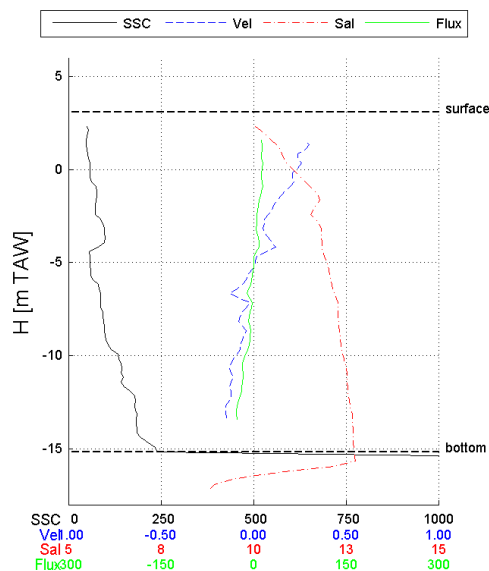
Siltprofiler, ADCP

Sourcefile(s):

1138Ya_1_00.txt
1153Ya_1_00.txt

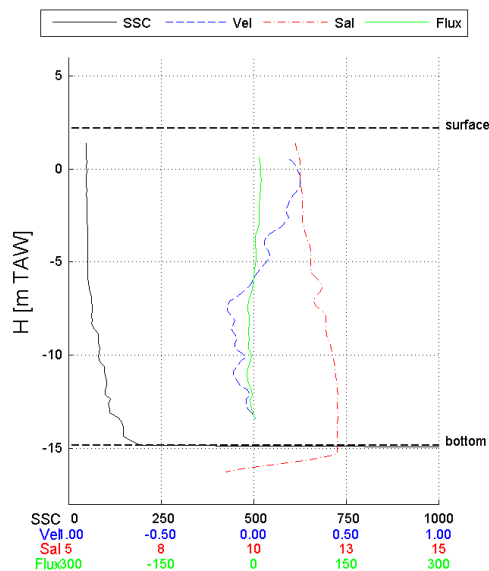
Location:

Deurganckdok Ya



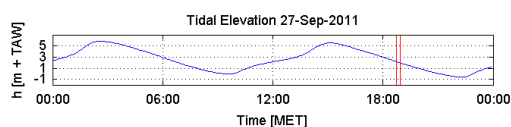
Easting [m UTM31-WGS84] 588530
Northing [m UTM31-WGS84] 5684079
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 175647
Water level [m TAW] 3.07
Water-bottom interface [m TAW] -15.16

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	47.57	0.29	10.53	13.62
0.00	58.87	0.23	11.07	13.53
-1.50	75.25	0.14	11.76	10.71
-3.00	94.48	0.06	11.80	5.01
-4.50	56.79	0.05	11.89	2.84
-6.00	72.14	-0.05	12.10	-3.56
-7.50	88.94	-0.05	12.28	-4.11
-9.00	100.88	-0.05	12.34	-5.40
-10.50	142.99	-0.12	12.48	-17.80
-12.00	171.75	-0.12	12.56	-20.24
-13.50	183.48	-	12.67	-
-15.00	236.20	-	12.72	-
-16.50	-	-	9.85	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588509
Northing [m UTM31-WGS84] 5684094
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 184443
Water level [m TAW] 2.17
Water-bottom interface [m TAW] -14.85

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	49.18	0.24	11.25	11.57
-1.50	49.33	0.21	11.33	10.43
-3.00	50.93	0.16	11.35	8.20
-4.50	52.34	0.09	11.55	4.46
-6.00	53.92	-0.01	11.78	-0.34
-7.50	63.66	-0.14	11.78	-8.83
-9.00	81.36	-0.09	11.99	-7.45
-10.50	91.91	-0.08	12.19	-7.26
-12.00	98.81	-0.02	12.28	-2.47
-13.50	140.88	-	12.27	-
-15.00	2463.47	-	12.27	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

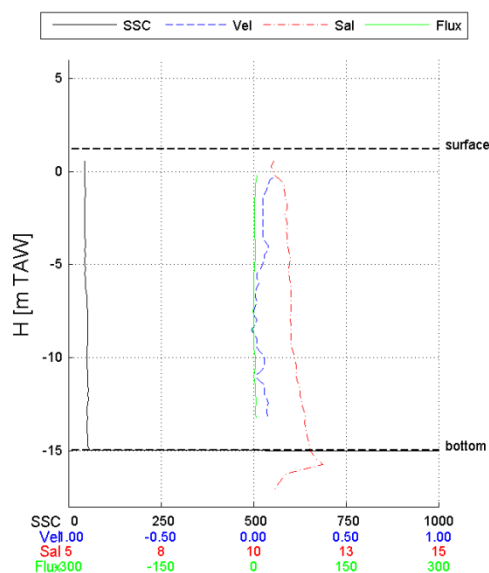
Siltprofiler, ADCP

Sourcefile(s):

1169Ya_1_00.txt

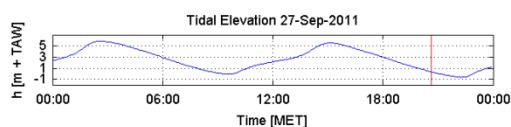
Location:

Deurganckdok Ya



Easting [m UTM31-WGS84] 588492
Northing [m UTM31-WGS84] 5684065
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 193715
Water level [m TAW] 1.23
Water-bottom interface [m TAW] -14.97

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	44.27	-	10.53	-
-1.50	44.62	0.05	10.88	2.42
-3.00	44.23	0.05	10.91	2.29
-4.50	45.41	0.06	10.98	2.85
-6.00	46.31	0.03	11.00	1.15
-7.50	51.67	0.00	11.02	-0.11
-9.00	52.08	0.02	11.02	0.98
-10.50	50.48	0.06	11.15	2.90
-12.00	53.00	0.06	11.27	3.23
-13.50	50.31	-	11.38	-
-15.00	717.94	-	11.54	-
-16.50	-	-	10.77	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

D.8 Location Yb

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

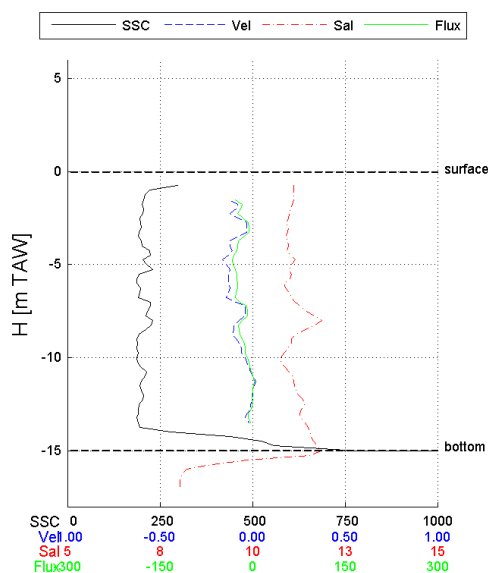
Siltprofiler, ADCP

Sourcefile(s):

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1023Yb_1_00.txt

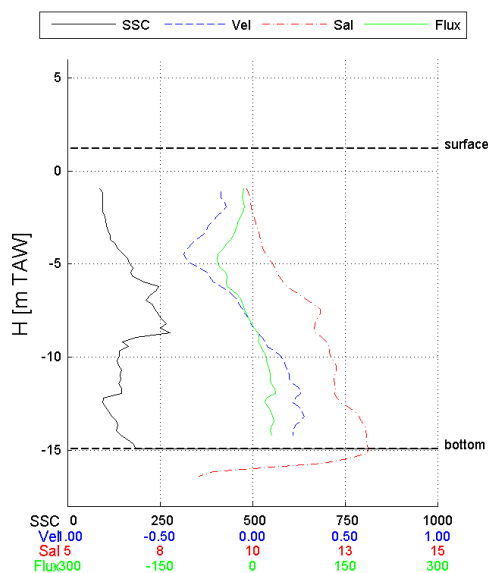
Location:

Deurganckdok Yb



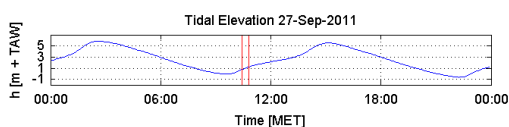
Easting [m UTM31-WGS84] 588570
Northing [m UTM31-WGS84] 5684148
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 092527
Water level [m TAW] -0.07
Water-bottom interface [m TAW] -15.00

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	205.08	-	11.11	-
-3.00	199.23	-0.03	10.97	-5.34
-4.50	223.86	-0.13	11.04	-30.19
-6.00	187.01	-0.13	10.85	-24.20
-7.50	216.12	-0.04	11.47	-8.10
-9.00	187.36	-0.09	11.06	-15.94
-10.50	197.61	-0.02	10.88	-3.84
-12.00	206.70	0.00	11.23	-0.27
-13.50	191.56	-	11.42	-
-15.00	784.13	-	11.86	-
-16.50	-	-	8.05	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588555
Northing [m UTM31-WGS84] 5684166
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 104900
Water level [m TAW] 1.23
Water-bottom interface [m TAW] -14.93

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	95.63	-0.16	9.94	-15.73
-3.00	107.00	-0.24	10.13	-25.81
-4.50	153.63	-0.37	10.36	-56.12
-6.00	215.16	-0.20	10.86	-41.91
-7.50	239.00	-0.05	11.84	-11.41
-9.00	173.87	0.06	11.91	9.99
-10.50	140.72	0.18	12.26	25.77
-12.00	132.44	0.25	12.24	33.47
-13.50	132.94	0.25	12.97	33.67
-15.00	10857.69	-	13.12	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

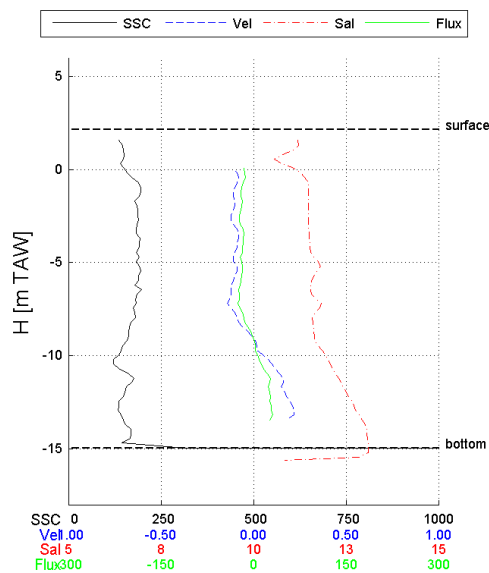
Siltprofiler, ADCP

Sourcefile(s):

1039Yb_1_00.txt
1055Yb_1_00.txt

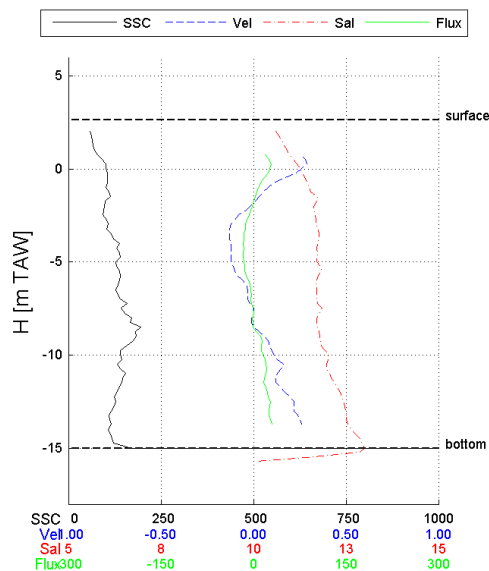
Location:

Deurganckdok Yb



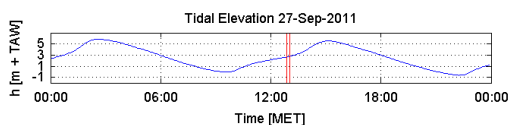
Easting [m UTM31-WGS84] 588559
Northing [m UTM31-WGS84] 5684186
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 120148
Water level [m TAW] 2.14
Water-bottom interface [m TAW] -14.95

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	138.95	-	11.20	-
0.00	152.95	-0.11	11.14	-15.40
-1.50	189.15	-0.11	11.49	-19.96
-3.00	184.23	-0.10	11.48	-19.90
-4.50	185.93	-0.10	11.56	-18.88
-6.00	187.77	-0.11	11.57	-20.40
-7.50	176.68	-0.11	11.76	-20.88
-9.00	161.45	-0.00	11.64	-0.44
-10.50	125.35	0.10	12.09	13.31
-12.00	152.34	0.17	12.52	26.38
-13.50	150.15	-	12.97	-
-15.00	8097.78	-	13.11	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588567
Northing [m UTM31-WGS84] 5684181
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 125120
Water level [m TAW] 2.65
Water-bottom interface [m TAW] -14.99

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	64.71	-	10.78	-
0.00	102.27	0.26	11.27	26.39
-1.50	111.37	0.03	11.73	2.90
-3.00	107.50	-0.12	11.71	-12.52
-4.50	137.76	-0.12	11.74	-16.70
-6.00	138.42	-0.06	11.71	-8.18
-7.50	143.58	0.00	11.85	-0.06
-9.00	183.78	0.06	11.80	11.91
-10.50	133.67	0.16	11.98	20.84
-12.00	129.78	0.17	12.34	22.55
-13.50	112.06	0.25	12.52	28.08
-15.00	2093.25	-	12.99	-
-16.50	-	-	-	-
-18.00	-	-	-	-



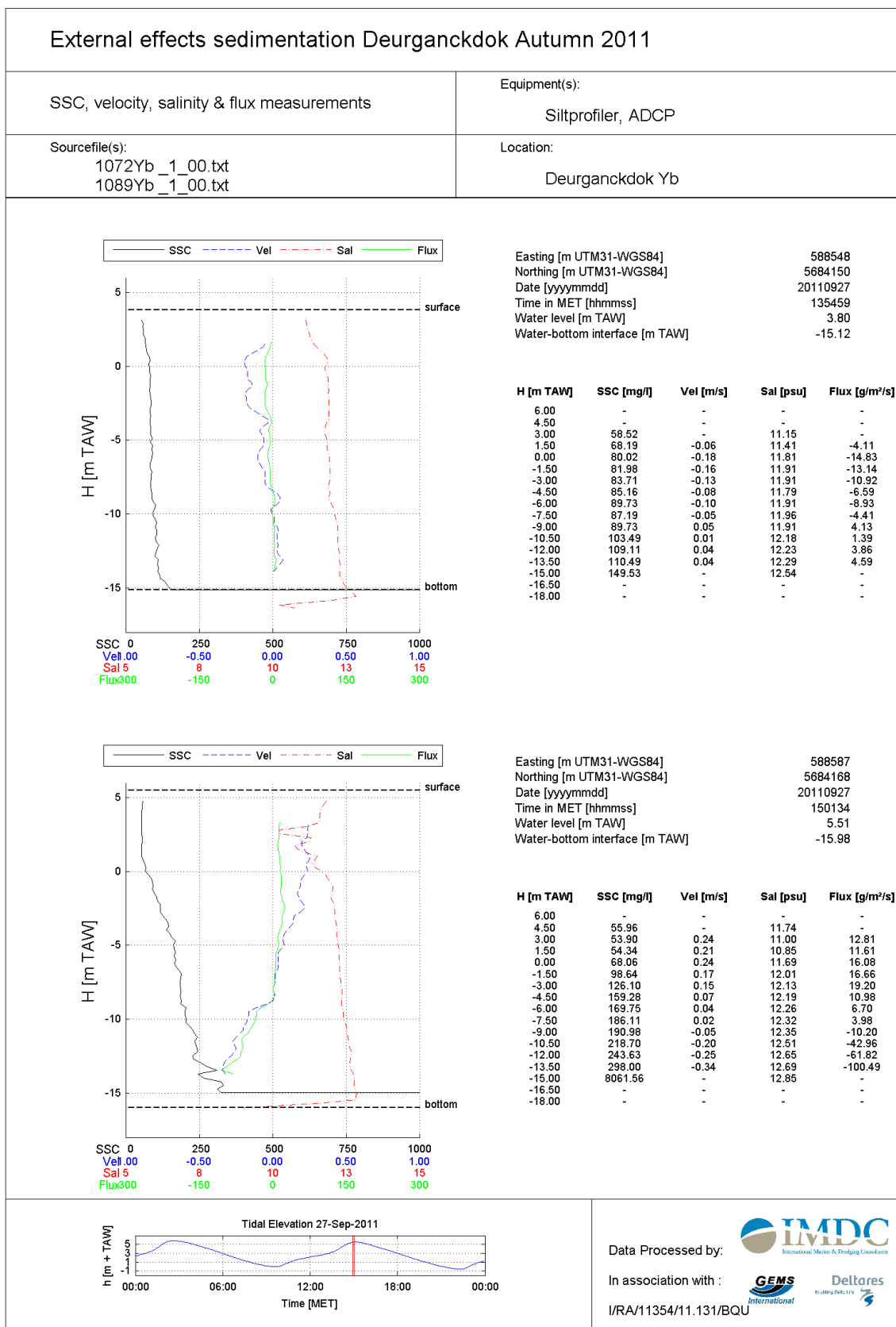
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

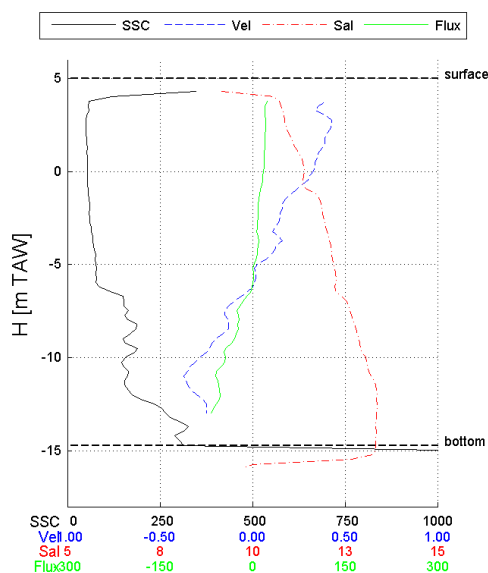
Siltprofiler, ADCP

Sourcefile(s):

1106Yb_1_00.txt
1123Yb_1_00.txt

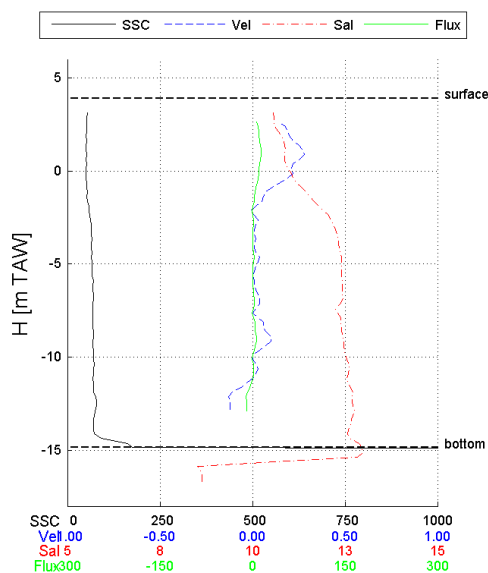
Location:

Deurganckdok Yb



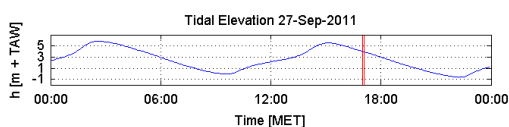
Easting [m UTM31-WGS84] 588575
Northing [m UTM31-WGS84] 5684175
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 155900
Water level [m TAW] 5.01
Water-bottom interface [m TAW] -14.72

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	51.26	0.39	10.85	20.33
1.50	52.41	0.39	11.11	20.33
0.00	53.82	0.33	11.40	17.45
-1.50	58.79	0.18	11.82	10.67
-3.00	64.90	0.12	11.98	7.48
-4.50	76.50	0.10	12.15	7.68
-6.00	78.90	0.01	12.24	0.75
-7.50	164.73	-0.15	12.63	-24.48
-9.00	150.79	-0.20	12.87	-30.08
-10.50	154.13	-0.34	13.11	-52.39
-12.00	178.59	-0.30	13.37	-52.72
-13.50	310.84	-	13.34	-
-15.00	6712.87	-	13.31	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588586
Northing [m UTM31-WGS84] 5684180
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 170441
Water level [m TAW] 3.91
Water-bottom interface [m TAW] -14.86

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	52.88	-	10.58	-
1.50	51.03	0.24	10.87	12.20
0.00	50.58	0.22	11.01	10.97
-1.50	53.85	0.05	11.62	2.80
-3.00	64.15	0.01	12.21	1.06
-4.50	65.31	0.03	12.39	2.15
-6.00	69.02	0.01	12.43	0.70
-7.50	68.37	0.01	12.28	0.64
-9.00	70.08	0.10	12.45	6.72
-10.50	72.00	0.03	12.62	1.83
-12.00	73.32	-0.12	12.71	-9.09
-13.50	71.00	-	12.66	-
-15.00	9814.90	-	12.98	-
-16.50	-	-	8.63	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

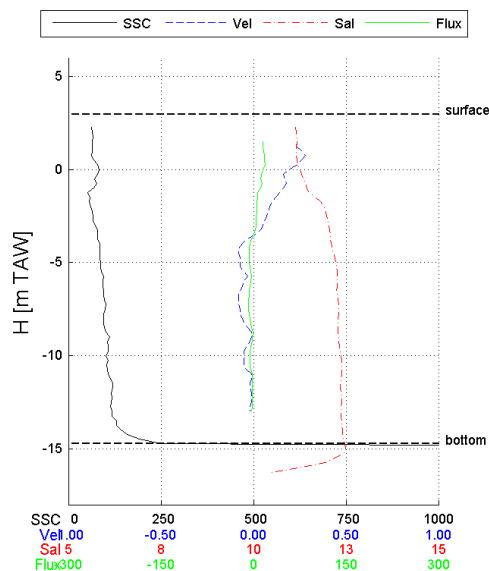
Siltprofiler, ADCP

Sourcefile(s):

1139Yb_1_00.txt
1154Yb_1_00.txt

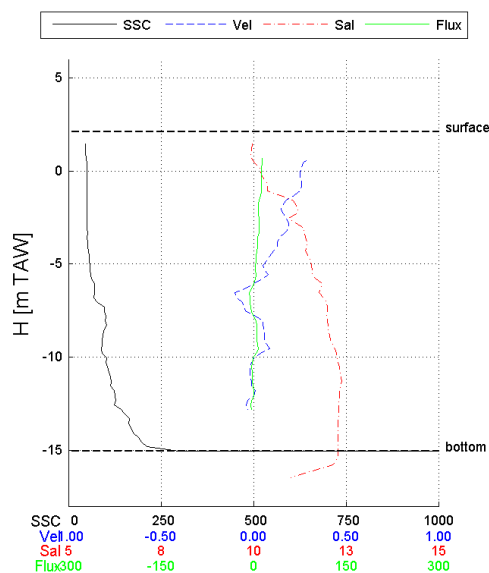
Location:

Deurganckdok Yb



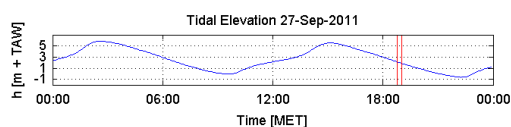
Easting [m UTM31-WGS84] 588599
Northing [m UTM31-WGS84] 5684151
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 180008
Water level [m TAW] 2.98
Water-bottom interface [m TAW] -14.74

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	64.67	-	11.17	-
0.00	83.34	0.19	11.25	15.80
-1.50	57.54	0.12	11.67	6.74
-3.00	73.29	0.05	12.04	3.79
-4.50	84.91	-0.08	12.17	-6.48
-6.00	93.52	-0.05	12.26	-4.47
-7.50	99.43	-0.07	12.31	-7.43
-9.00	110.38	-0.01	12.30	-1.60
-10.50	104.69	-0.05	12.38	-5.34
-12.00	116.07	-0.01	12.36	-1.52
-13.50	129.72	-	12.38	-
-15.00	5684.50	-	12.49	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588574
Northing [m UTM31-WGS84] 5684148
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 184727
Water level [m TAW] 2.12
Water-bottom interface [m TAW] -15.05

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	49.88	0.25	10.19	12.66
-1.50	50.53	0.19	10.99	9.47
-3.00	51.00	0.19	11.32	9.79
-4.50	55.63	0.09	11.47	5.08
-6.00	68.66	0.01	11.83	0.88
-7.50	97.03	-0.04	11.99	-3.85
-9.00	91.63	0.06	12.08	5.13
-10.50	105.48	-0.02	12.32	-2.36
-12.00	125.90	0.00	12.33	0.58
-13.50	162.85	-	12.29	-
-15.00	280.89	-	12.28	-
-16.50	-	-	-	-
-18.00	-	-	-	-



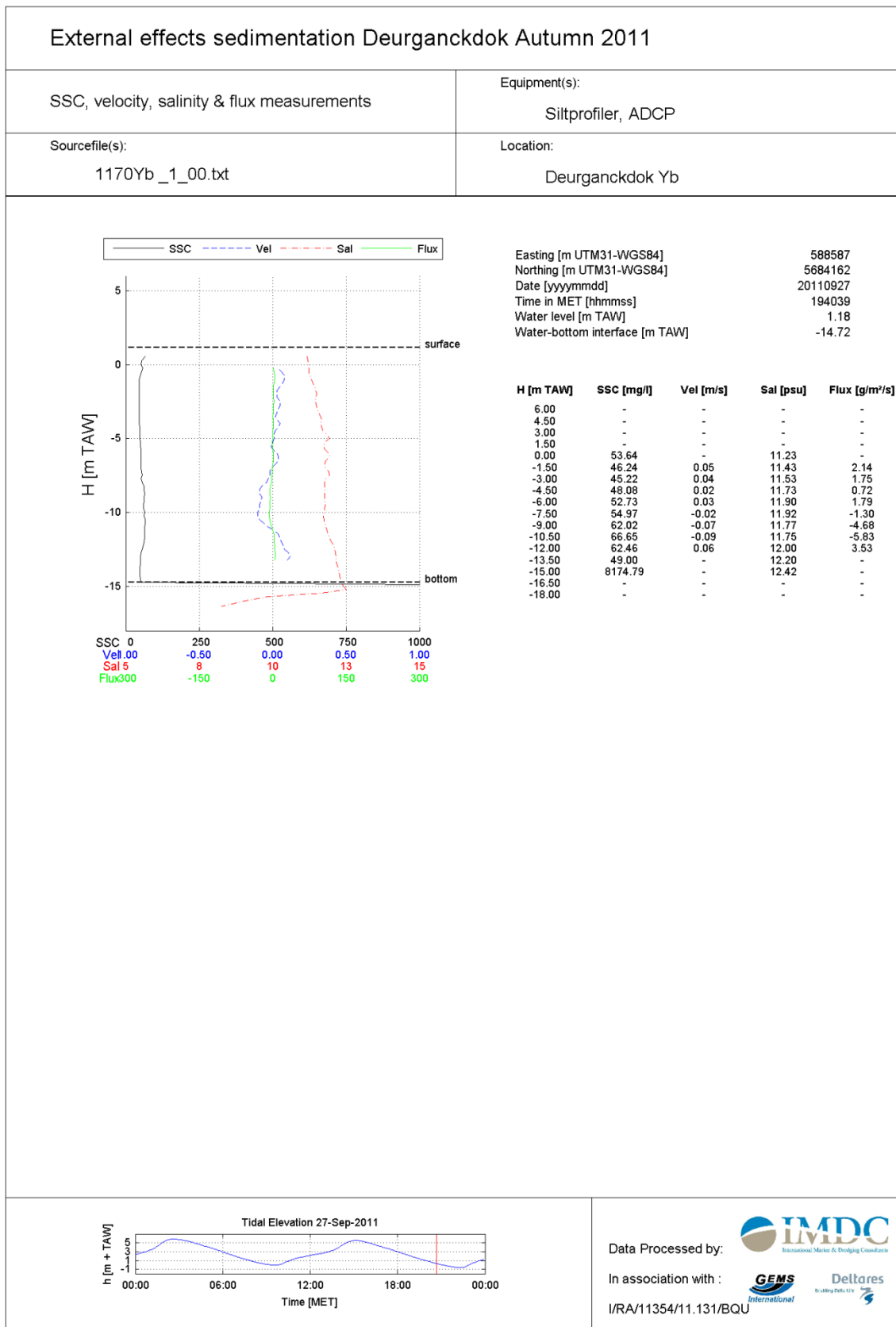
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



D.9 Location Yc

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

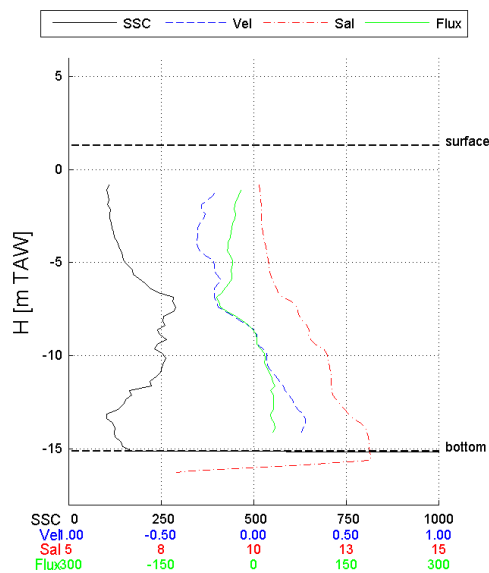
Siltprofiler, ADCP

Sourcefile(s):

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1040Yc_1_00.txt

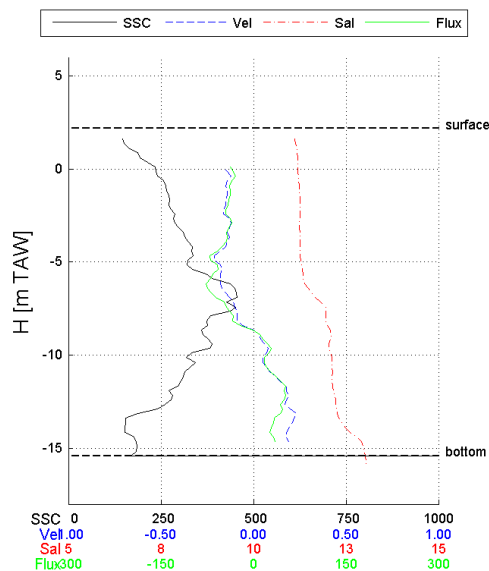
Location:

Deurganckdok Yc



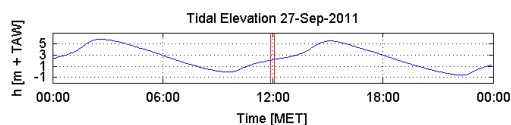
Easting [m UTM31-WGS84] 588603
Northing [m UTM31-WGS84] 5684249
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 105150
Water level [m TAW] 1.28
Water-bottom interface [m TAW] -15.12

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	108.56	-0.23	10.19	-25.56
-3.00	117.22	-0.29	10.23	-34.41
-4.50	144.94	-0.28	10.36	-40.09
-6.00	199.38	-0.19	10.54	-37.84
-7.50	286.44	-0.17	11.18	-48.04
-9.00	256.86	0.02	11.52	5.29
-10.50	254.03	0.06	12.05	19.94
-12.00	167.72	0.18	12.14	30.34
-13.50	111.36	0.28	12.79	31.23
-15.00	160.22	-	13.14	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588608
Northing [m UTM31-WGS84] 5684273
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 120359
Water level [m TAW] 2.17
Water-bottom interface [m TAW] -15.41

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	148.17	-	11.12	-
0.00	235.37	-0.15	11.20	-35.12
-1.50	272.22	-0.14	11.25	-38.09
-3.00	292.77	-0.12	11.24	-37.16
-4.50	334.45	-0.19	11.25	-63.06
-6.00	408.56	-0.18	11.37	-72.47
-7.50	445.88	-0.10	11.95	-41.33
-9.00	371.21	0.03	12.09	13.20
-10.50	337.14	0.06	12.13	19.30
-12.00	276.26	0.18	12.18	50.81
-13.50	155.62	0.22	12.35	33.17
-15.00	184.14	-	12.99	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

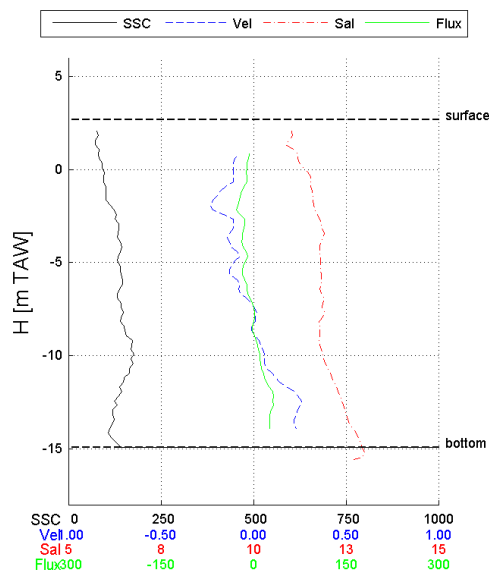
Siltprofiler, ADCP

Sourcefile(s):

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1073Yc_1_00.txt

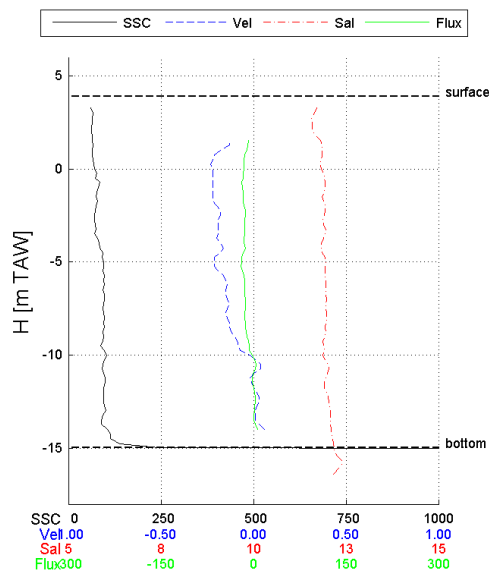
Location:

Deurganckdok Yc



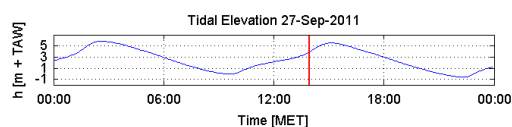
Easting [m UTM31-WGS84] 588591
Northing [m UTM31-WGS84] 5684236
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 125357
Water level [m TAW] 2.69
Water-bottom interface [m TAW] -14.92

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	72.74	-	10.94	-
0.00	93.59	-0.11	11.40	-10.70
-1.50	102.13	-0.21	11.61	-21.48
-3.00	135.32	-0.11	11.84	-14.79
-4.50	138.78	-0.08	11.80	-11.19
-6.00	146.58	-0.08	11.84	-12.31
-7.50	144.66	0.01	11.88	1.12
-9.00	160.97	0.02	11.79	2.33
-10.50	171.42	0.06	11.96	11.70
-12.00	141.08	0.23	12.31	32.05
-13.50	122.18	0.22	12.57	26.72
-15.00	5380.63	-	12.96	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588599
Northing [m UTM31-WGS84] 5684230
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 135736
Water level [m TAW] 3.90
Water-bottom interface [m TAW] -14.98

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	65.53	-	11.64	-
1.50	64.54	-0.13	11.82	-8.59
0.00	71.88	-0.22	11.84	-15.99
-1.50	75.33	-0.22	11.86	-16.42
-3.00	71.99	-0.19	11.90	-13.90
-4.50	92.57	-0.18	11.87	-16.88
-6.00	95.47	-0.15	11.95	-14.50
-7.50	94.10	-0.14	11.96	-13.36
-9.00	95.79	-0.10	11.93	-9.84
-10.50	92.55	0.04	12.02	3.80
-12.00	95.27	0.02	11.98	2.38
-13.50	89.14	0.01	12.08	1.22
-15.00	1561.83	-	12.18	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

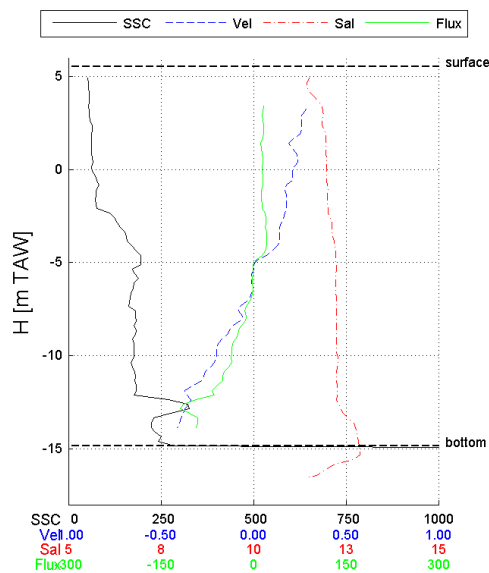
Siltprofiler, ADCP

Sourcefile(s):

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1107Yc_1_00.txt

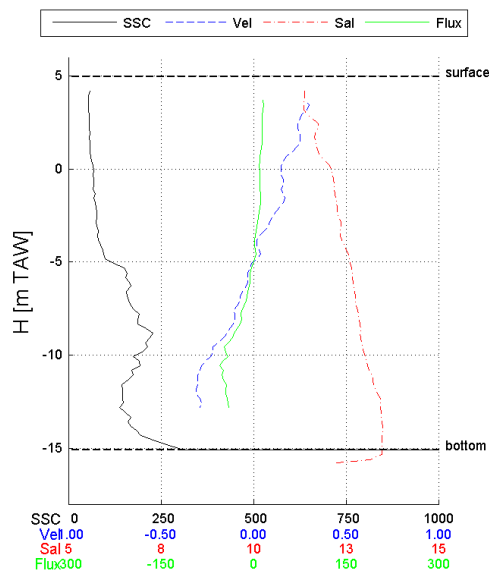
Location:

Deurganckdok Yc



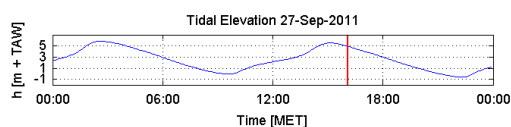
Easting [m UTM31-WGS84] 588621
Northing [m UTM31-WGS84] 5684205
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 150536
Water level [m TAW] 5.52
Water-bottom interface [m TAW] -14.86

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	54.92	-	11.45	-
3.00	56.07	0.27	11.89	15.03
1.50	62.91	0.20	11.95	12.49
0.00	64.10	0.21	11.98	13.90
-1.50	73.17	0.18	12.00	13.12
-3.00	137.77	0.14	12.12	19.67
-4.50	190.35	0.08	12.22	15.72
-6.00	181.94	-0.01	12.23	-1.73
-7.50	174.27	-0.08	12.25	-13.31
-9.00	177.11	-0.16	12.25	-27.52
-10.50	171.07	-0.22	12.27	-38.29
-12.00	179.35	-0.36	12.26	-65.31
-13.50	227.01	-0.40	12.65	-89.88
-15.00	2470.06	-	12.87	-
-16.50	-	-	11.54	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588602
Northing [m UTM31-WGS84] 5684233
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 160232
Water level [m TAW] 4.95
Water-bottom interface [m TAW] -15.07

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	55.03	0.27	11.43	14.90
1.50	57.47	0.25	11.68	14.23
0.00	67.90	0.15	12.10	9.99
-1.50	69.34	0.17	12.22	11.62
-3.00	76.06	0.08	12.36	5.97
-4.50	95.11	0.04	12.55	3.41
-6.00	162.36	-0.03	12.69	-5.21
-7.50	175.92	-0.10	12.80	-18.06
-9.00	222.28	-0.15	12.90	-33.61
-10.50	192.77	-0.27	13.07	-52.89
-12.00	146.42	-0.31	13.34	-44.99
-13.50	162.25	-	13.47	-
-15.00	298.78	-	13.48	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

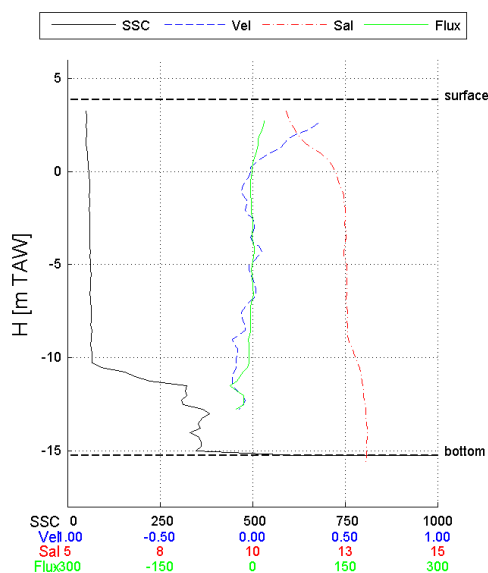
Siltprofiler, ADCP

Sourcefile(s):

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1140Yc_1_00.txt

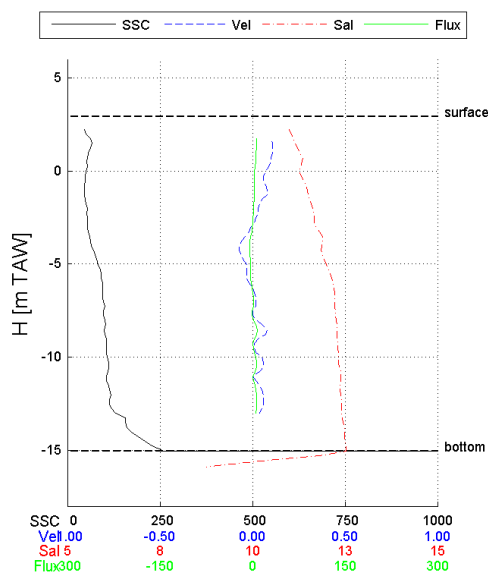
Location:

Deurganckdok Yc



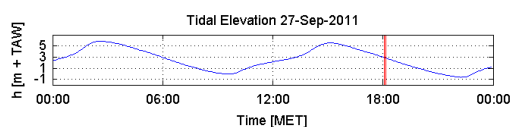
Easting [m UTM31-WGS84] 588595
Northing [m UTM31-WGS84] 5684258
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 170839
Water level [m TAW] 3.85
Water-bottom interface [m TAW] -15.26

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	52.57	-	10.95	-
1.50	50.20	0.17	11.45	8.78
0.00	57.53	-0.01	12.24	-0.76
-1.50	60.86	-0.03	12.46	-2.06
-3.00	60.47	0.01	12.50	0.52
-4.50	61.47	0.03	12.47	2.28
-6.00	62.35	0.01	12.55	0.52
-7.50	64.60	-0.06	12.57	-3.45
-9.00	64.99	-0.11	12.59	-6.94
-10.50	89.97	-0.09	12.89	-7.96
-12.00	322.22	-0.05	13.01	-15.43
-13.50	354.04	-	13.08	-
-15.00	347.94	-	13.08	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588613
Northing [m UTM31-WGS84] 5684225
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 180321
Water level [m TAW] 2.93
Water-bottom interface [m TAW] -15.04

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	65.59	0.11	11.15	7.10
0.00	50.68	0.07	11.26	3.62
-1.50	47.60	0.05	11.54	2.66
-3.00	55.12	-0.01	11.73	-0.29
-4.50	74.98	-0.06	11.89	-4.34
-6.00	94.58	-0.02	12.18	-1.75
-7.50	97.45	0.00	12.24	0.08
-9.00	104.47	0.03	12.28	3.60
-10.50	111.31	0.06	12.35	7.00
-12.00	117.50	0.06	12.38	7.02
-13.50	157.02	-	12.45	-
-15.00	255.65	-	12.53	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

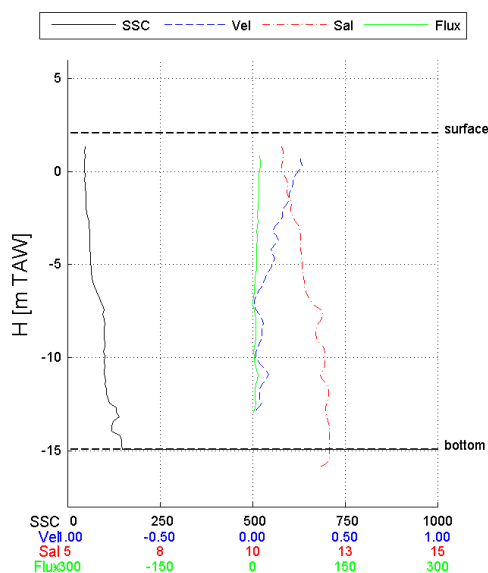
Siltprofiler, ADCP

Sourcefile(s):

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1171Yc_1_00.txt

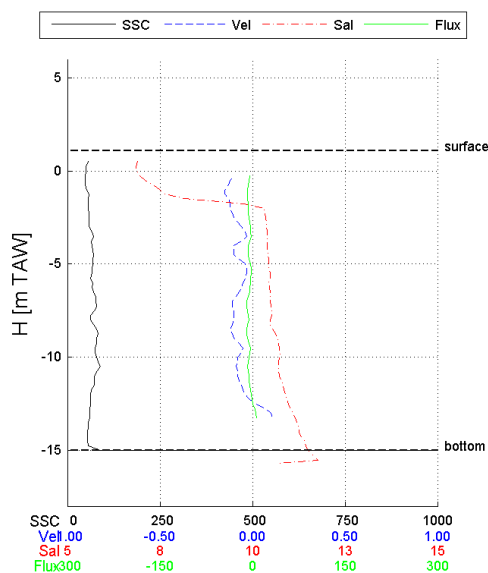
Location:

Deurganckdok Yc



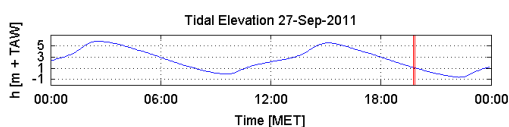
Easting [m UTM31-WGS84] 588609
Northing [m UTM31-WGS84] 5684229
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 185015
Water level [m TAW] 2.08
Water-bottom interface [m TAW] -14.92

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	46.82	0.24	10.79	11.30
-1.50	50.78	0.20	11.02	9.81
-3.00	59.78	0.12	11.26	7.27
-4.50	62.50	0.11	11.32	7.09
-6.00	69.37	0.06	11.40	3.77
-7.50	98.27	0.03	11.86	2.85
-9.00	100.21	0.05	11.76	5.02
-10.50	100.97	0.06	11.95	5.85
-12.00	105.72	0.04	12.06	4.30
-13.50	122.43	-	12.05	-
-15.00	12514.04	-	12.08	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588604
Northing [m UTM31-WGS84] 5684233
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 194447
Water level [m TAW] 1.11
Water-bottom interface [m TAW] -15.01

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	49.29	-	6.87	-
-1.50	55.54	-0.13	8.23	-7.40
-3.00	59.02	-0.06	10.36	-3.26
-4.50	71.37	-0.10	10.42	-6.79
-6.00	67.86	-0.05	10.45	-3.52
-7.50	72.30	-0.10	10.52	-7.44
-9.00	79.27	-0.10	10.69	-7.70
-10.50	88.88	-0.09	10.71	-8.05
-12.00	62.04	-0.04	10.90	-2.28
-13.50	56.79	-	11.19	-
-15.00	88.47	-	11.51	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

D.10 Location Yd

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

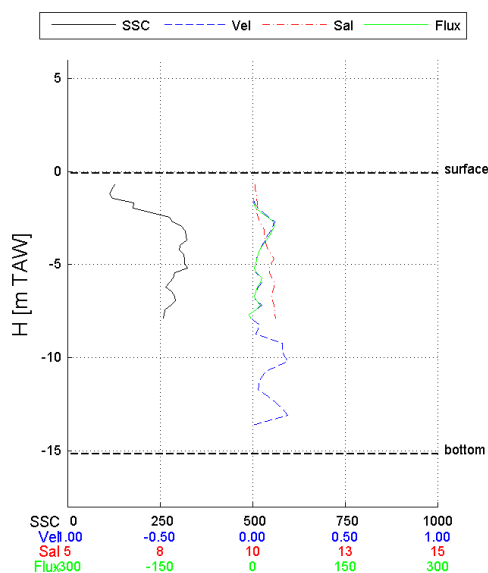
Siltprofiler, ADCP

Sourcefile(s):

1009Yd_1_00.txt
1025Yd_1_00.txt

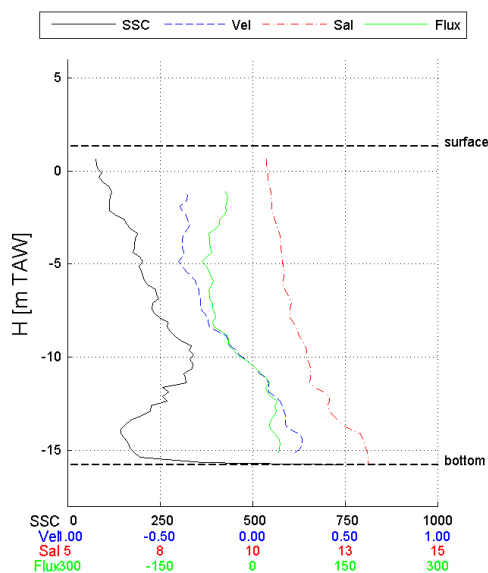
Location:

Deurganckdok Yd



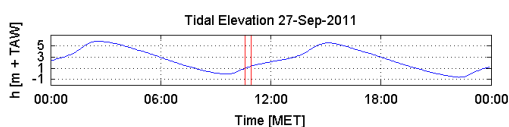
Easting [m UTM31-WGS84] 588639
Northing [m UTM31-WGS84] 5684366
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 093618
Water level [m TAW] -0.08
Water-bottom interface [m TAW] -15.15

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	136.87	0.01	10.12	1.61
-3.00	311.10	0.11	10.29	34.56
-4.50	315.30	0.03	10.53	8.31
-6.00	273.77	0.05	10.60	11.83
-7.50	262.50	0.01	10.60	2.49
-9.00	-	0.09	-	-
-10.50	-	0.12	-	-
-12.00	-	0.07	-	-
-13.50	-	0.04	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588660
Northing [m UTM31-WGS84] 5684283
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 105441
Water level [m TAW] 1.33
Water-bottom interface [m TAW] -15.77

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	88.39	-	10.40	-
-1.50	113.78	-0.36	10.52	-40.73
-3.00	166.67	-0.35	10.67	-57.33
-4.50	186.54	-0.38	10.79	-70.27
-6.00	212.35	-0.30	10.84	-64.50
-7.50	231.60	-0.27	11.01	-62.85
-9.00	300.32	-0.13	11.32	-39.45
-10.50	337.72	0.01	11.55	1.56
-12.00	264.53	0.11	12.00	27.22
-13.50	162.92	0.18	12.37	29.09
-15.00	175.55	0.25	13.09	42.97
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

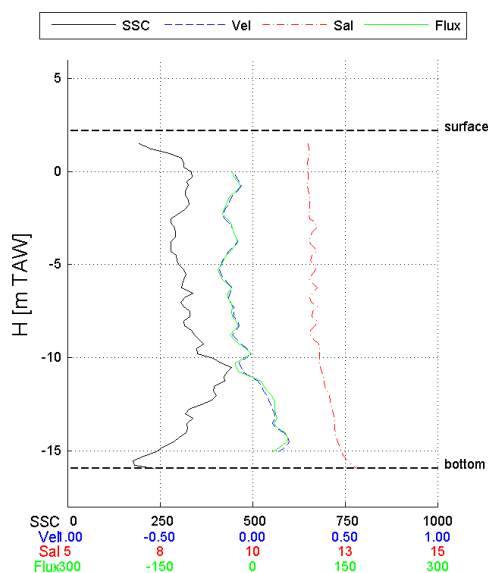
Siltprofiler, ADCP

Sourcefile(s):

1041Yd_1_00.txt
1057Yd_1_00.txt

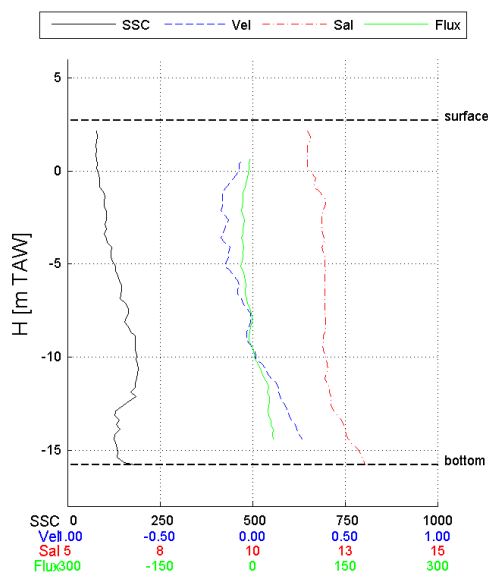
Location:

Deurganckdok Yd



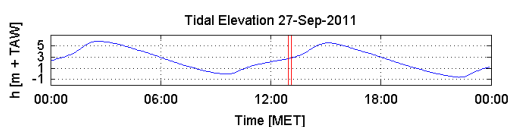
Easting [m UTM31-WGS84] 588677
Northing [m UTM31-WGS84] 5684328
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 120657
Water level [m TAW] 2.20
Water-bottom interface [m TAW] -15.93

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	333.71	-	11.51	-
-1.50	325.52	-0.12	11.55	-39.94
-3.00	290.37	-0.11	11.73	-33.17
-4.50	294.05	-0.14	11.62	-42.26
-6.00	311.00	-0.13	11.63	-41.43
-7.50	330.46	-0.10	11.64	-33.26
-9.00	355.03	-0.08	11.64	-30.52
-10.50	439.71	-0.06	11.83	-26.92
-12.00	401.67	0.08	12.08	30.21
-13.50	324.79	0.11	12.23	35.78
-15.00	243.75	0.14	12.40	34.61
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588670
Northing [m UTM31-WGS84] 5684307
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 125723
Water level [m TAW] 2.73
Water-bottom interface [m TAW] -15.77

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	78.15	-	11.53	-
0.00	81.52	-0.08	11.55	-6.16
-1.50	99.65	-0.16	11.96	-15.59
-3.00	104.31	-0.15	11.88	-14.88
-4.50	118.01	-0.13	11.93	-15.22
-6.00	143.50	-0.07	11.95	-11.02
-7.50	165.05	-0.02	11.96	-2.60
-9.00	183.63	-0.03	11.91	-5.53
-10.50	191.28	0.06	12.02	11.66
-12.00	178.02	0.14	12.10	25.31
-13.50	136.61	0.22	12.43	30.02
-15.00	135.06	-	12.86	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

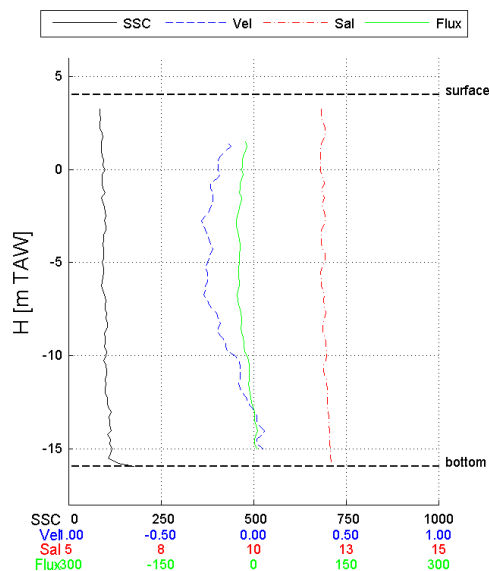
Siltprofiler, ADCP

Sourcefile(s):

1074Yd_1_00.txt
1108Yd_1_00.txt

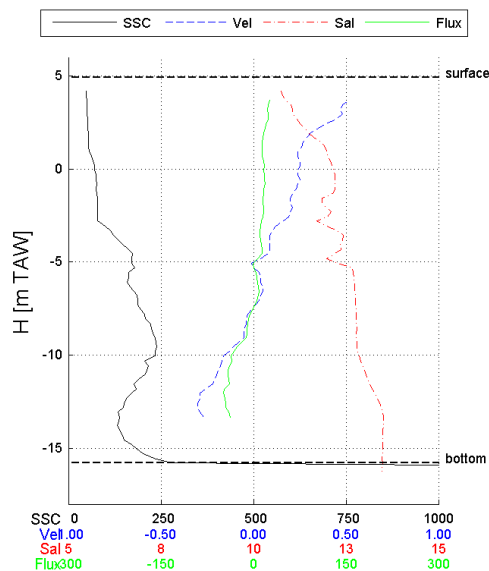
Location:

Deurganckdok Yd



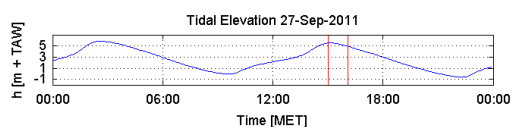
Easting [m UTM31-WGS84] 588655
Northing [m UTM31-WGS84] 5684321
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 140049
Water level [m TAW] 4.02
Water-bottom interface [m TAW] -15.95

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	84.21	-	11.83	-
1.50	88.64	-	11.85	-
0.00	99.66	-0.19	11.81	-18.69
-1.50	89.64	-0.22	11.92	-19.75
-3.00	102.13	-0.27	11.89	-27.63
-4.50	95.34	-0.23	11.93	-22.31
-6.00	90.89	-0.25	11.83	-22.99
-7.50	99.14	-0.22	11.94	-21.66
-9.00	99.58	-0.17	11.94	-17.18
-10.50	101.78	-0.07	11.90	-7.21
-12.00	99.00	-0.06	11.99	-5.65
-13.50	112.13	0.02	12.03	2.48
-15.00	118.43	-	12.07	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588651
Northing [m UTM31-WGS84] 5684314
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 160513
Water level [m TAW] 4.91
Water-bottom interface [m TAW] -15.79

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.53	0.48	11.08	23.98
1.50	53.65	0.27	11.78	14.78
0.00	70.10	0.24	12.16	17.03
-1.50	79.13	0.20	11.92	15.74
-3.00	95.84	0.13	11.93	11.99
-4.50	170.94	0.08	12.24	14.10
-6.00	160.13	0.04	12.73	6.54
-7.50	194.70	-0.01	12.77	-1.29
-9.00	232.64	-0.05	12.77	-11.97
-10.50	213.90	-0.18	12.96	-37.60
-12.00	173.33	-0.28	13.27	-48.35
-13.50	136.13	-	13.51	-
-15.00	182.59	-	13.49	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

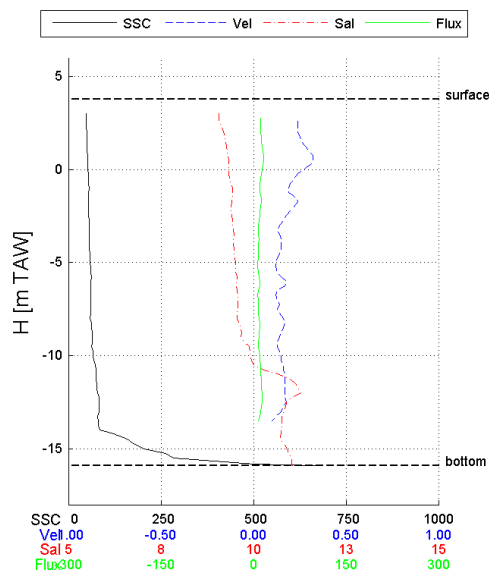
Siltprofiler, ADCP

Sourcefile(s):

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1141Yd_1_00.txt

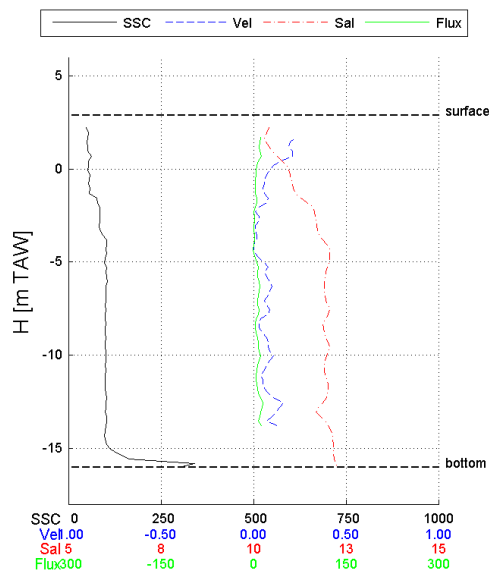
Location:

Deurganckdok Yd



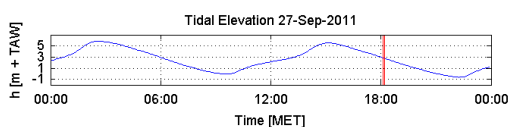
Easting [m UTM31-WGS84] 588666
Northing [m UTM31-WGS84] 5684322
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 171217
Water level [m TAW] 3.79
Water-bottom interface [m TAW] -15.90

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	49.03	-	9.06	-
1.50	50.31	0.26	9.25	13.36
0.00	51.79	0.27	9.33	14.07
-1.50	54.60	0.23	9.44	12.37
-3.00	55.74	0.14	9.44	7.99
-4.50	58.67	0.14	9.47	7.98
-6.00	60.12	0.18	9.54	11.04
-7.50	60.51	0.13	9.57	7.82
-9.00	64.42	0.14	9.66	8.83
-10.50	72.74	0.16	10.02	11.92
-12.00	79.74	0.17	11.26	13.73
-13.50	80.97	0.10	10.76	8.35
-15.00	206.18	-	10.91	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588654
Northing [m UTM31-WGS84] 5684301
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 180547
Water level [m TAW] 2.89
Water-bottom interface [m TAW] -16.02

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	50.07	0.21	10.33	10.32
0.00	53.15	0.09	10.95	4.97
-1.50	72.04	0.08	11.25	5.27
-3.00	84.20	0.01	11.72	1.20
-4.50	102.99	0.01	12.06	0.67
-6.00	105.04	0.09	11.92	9.02
-7.50	101.03	0.09	12.05	9.11
-9.00	100.48	0.07	11.95	6.29
-10.50	100.03	0.07	11.92	7.29
-12.00	101.14	0.08	11.99	7.58
-13.50	103.51	0.08	11.92	7.99
-15.00	110.81	-	12.16	-
-16.50	-	-	-	-
-18.00	-	-	-	-



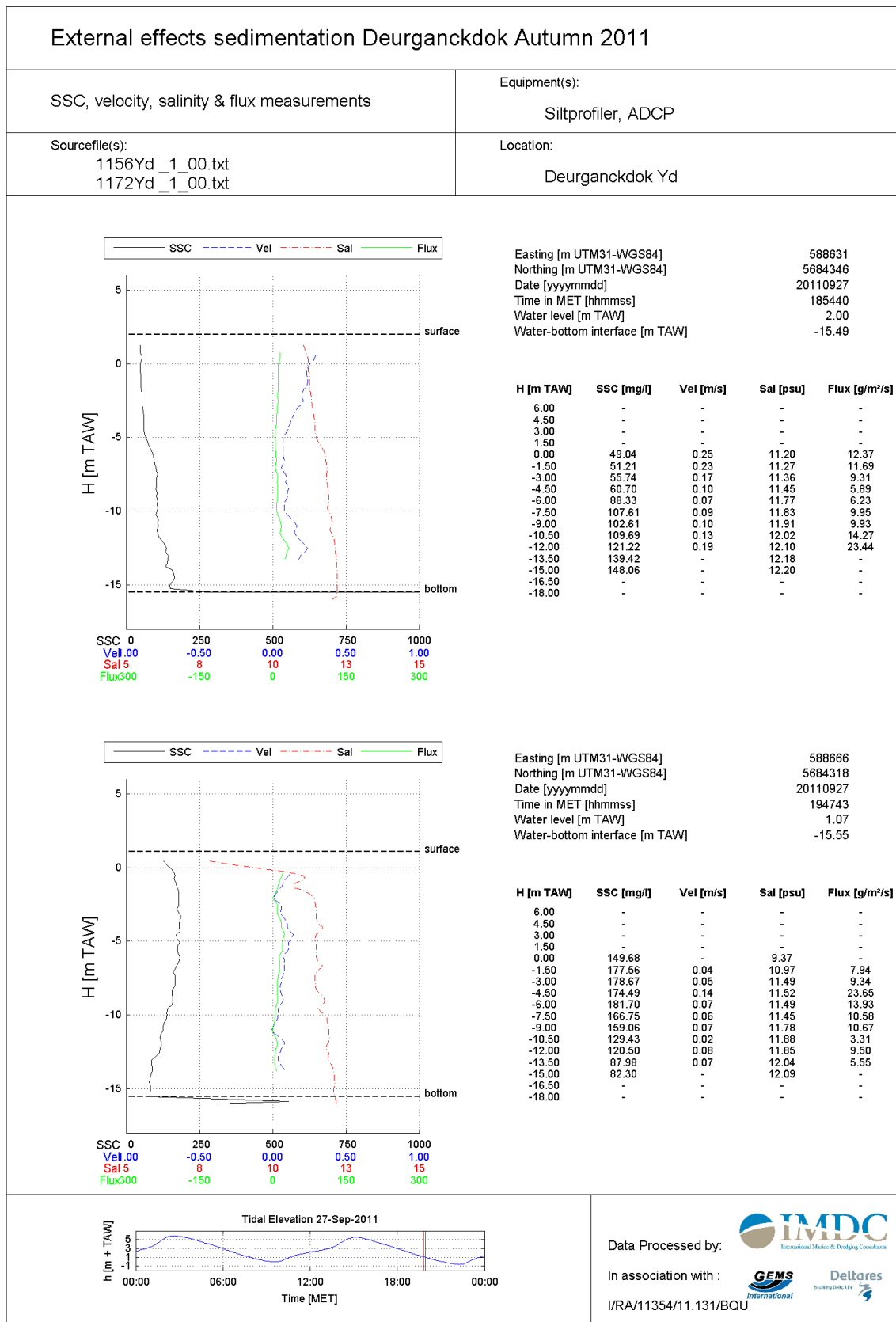
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



D.11 Location Ye

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

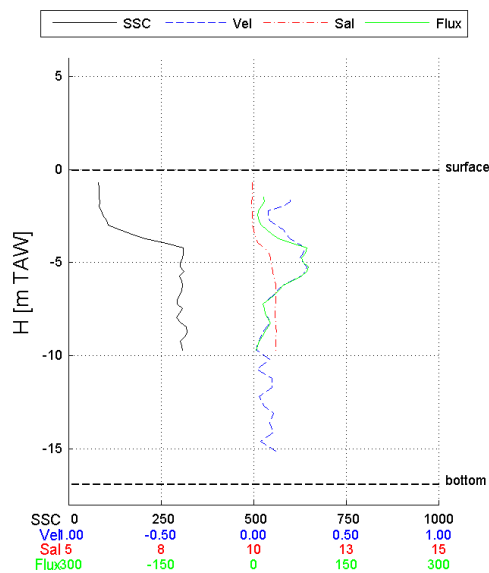
Siltprofiler, ADCP

Sourcefile(s):

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1026Ye_1_00.txt

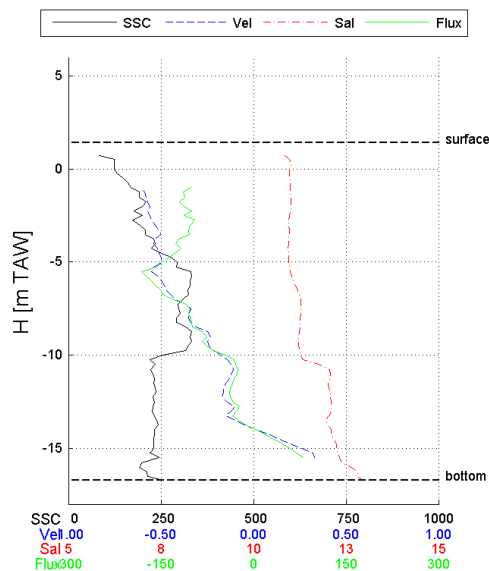
Location:

Deurganckdok Ye



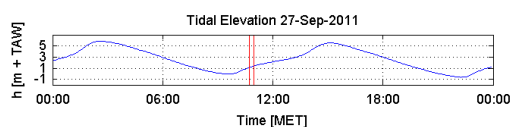
Easting [m UTM31-WGS84] 588713
Northing [m UTM31-WGS84] 5684403
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 094320
Water level [m TAW] -0.07
Water-bottom interface [m TAW] -16.93

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	84.01	0.20	9.96	16.73
-3.00	110.73	0.12	9.97	13.63
-4.50	310.46	0.27	10.42	84.27
-6.00	307.04	0.20	10.58	62.83
-7.50	307.15	0.06	10.59	17.56
-9.00	312.87	0.04	10.61	13.17
-10.50	-	0.05	-	-
-12.00	-	0.06	-	-
-13.50	-	0.09	-	-
-15.00	-	0.10	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588699
Northing [m UTM31-WGS84] 5684391
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 105848
Water level [m TAW] 1.40
Water-bottom interface [m TAW] -16.73

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	124.44	-	10.98	-
-3.00	191.37	-0.58	11.01	-111.65
-4.50	192.63	-0.53	10.96	-102.63
-6.00	246.81	-0.51	10.95	-126.34
-7.50	329.31	-0.50	11.08	-165.28
-9.00	298.36	-0.34	11.28	-102.77
-10.50	329.88	-0.23	11.22	-75.30
-12.00	234.26	-0.12	11.75	-28.76
-13.50	237.70	-0.16	12.07	-39.05
-15.00	238.78	-0.10	11.93	-23.40
-16.50	230.14	0.26	12.25	59.61
-18.00	214.96	-	12.82	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

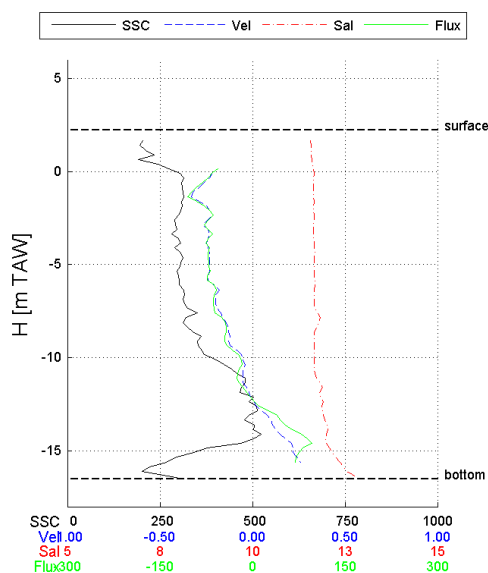
Siltprofiler, ADCP

Sourcefile(s):

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1058Ye_1_00.txt

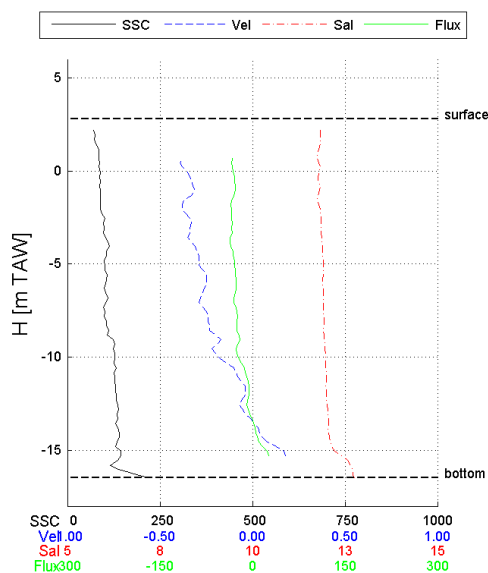
Location:

Deurganckdok Ye



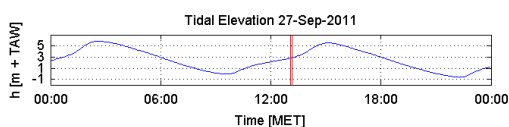
Easting [m UTM31-WGS84] 588713
Northing [m UTM31-WGS84] 5684376
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 121003
Water level [m TAW] 2.23
Water-bottom interface [m TAW] -16.51

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	199.55	-	11.58	-
0.00	292.74	-0.21	11.66	-61.61
-1.50	310.83	-0.31	11.66	-96.24
-3.00	295.27	-0.25	11.64	-74.73
-4.50	309.42	-0.23	11.68	-72.02
-6.00	301.96	-0.22	11.69	-66.81
-7.50	340.63	-0.18	11.74	-61.52
-9.00	355.03	-0.13	11.67	-45.00
-10.50	436.57	-0.05	11.68	-19.79
-12.00	487.84	-0.01	11.83	-5.81
-13.50	494.49	0.11	11.99	50.73
-15.00	355.14	0.22	12.14	78.13
-16.50	308.03	-	12.85	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588727
Northing [m UTM31-WGS84] 5684370
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 130350
Water level [m TAW] 2.80
Water-bottom interface [m TAW] -16.46

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	76.11	-	11.83	-
0.00	87.82	-0.35	11.82	-31.35
-1.50	89.82	-0.36	11.76	-32.82
-3.00	98.93	-0.34	11.86	-33.33
-4.50	105.94	-0.29	11.90	-31.19
-6.00	103.43	-0.25	11.90	-25.91
-7.50	101.36	-0.25	11.92	-25.60
-9.00	119.71	-0.18	11.94	-20.99
-10.50	130.50	-0.11	11.98	-13.91
-12.00	132.34	-0.04	11.99	-5.71
-13.50	130.95	0.01	12.05	1.04
-15.00	142.07	0.17	12.22	22.97
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



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External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

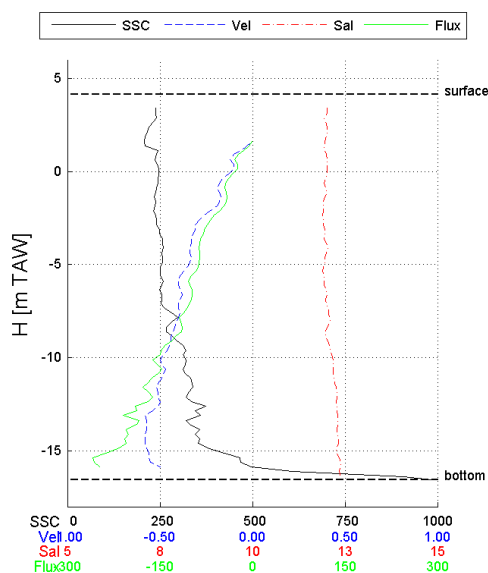
Siltprofiler, ADCP

Sourcefile(s):

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1092Ye_1_00.txt

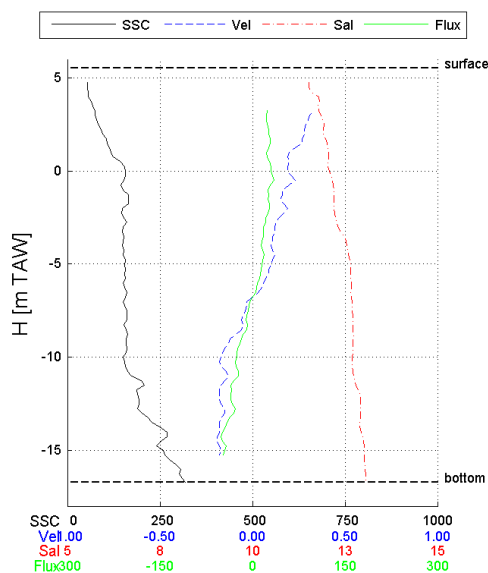
Location:

Deurganckdok Ye



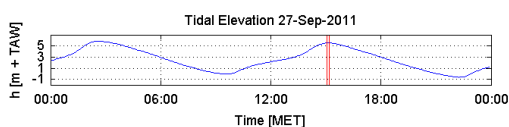
Easting [m UTM31-WGS84] 588695
Northing [m UTM31-WGS84] 5684391
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 140416
Water level [m TAW] 4.13
Water-bottom interface [m TAW] -16.55

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	240.01	-	11.97	-
1.50	209.08	-0.02	11.94	-3.63
0.00	246.78	-0.12	12.01	-28.75
-1.50	237.52	-0.18	11.93	-42.06
-3.00	245.94	-0.31	11.94	-76.10
-4.50	256.41	-0.33	11.97	-85.44
-6.00	256.27	-0.40	11.93	-102.64
-7.50	274.77	-0.39	12.06	-109.28
-9.00	290.60	-0.44	12.01	-128.56
-10.50	314.28	-0.48	12.18	-150.63
-12.00	322.69	-0.51	12.28	-164.43
-13.50	326.89	-0.57	12.30	-185.94
-15.00	402.38	-0.56	12.27	-227.34
-16.50	958.48	-	12.42	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588687
Northing [m UTM31-WGS84] 5684352
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 151116
Water level [m TAW] 5.52
Water-bottom interface [m TAW] -16.70

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	54.82	-	11.53	-
3.00	74.85	0.31	11.85	23.05
1.50	106.59	0.27	12.01	28.44
0.00	156.71	0.19	12.09	30.09
-1.50	164.95	0.15	12.20	25.21
-3.00	149.92	0.12	12.30	17.69
-4.50	151.38	0.12	12.60	18.71
-6.00	151.04	0.06	12.68	8.51
-7.50	161.27	-0.04	12.70	-6.33
-9.00	159.26	-0.12	12.72	-17.98
-10.50	157.83	-0.17	12.70	-26.28
-12.00	190.14	-0.18	12.89	-34.62
-13.50	227.99	-0.18	12.90	-40.46
-15.00	258.60	-0.17	13.03	-45.01
-16.50	310.33	-	13.07	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

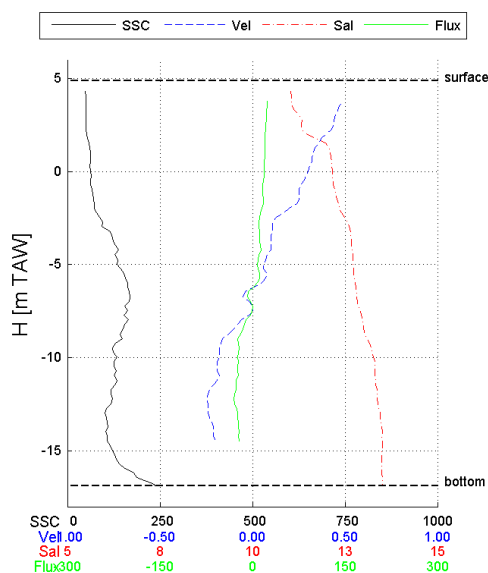
Siltprofiler, ADCP

Sourcefile(s):

1109Ye_1_00.txt
1126Ye_1_00.txt

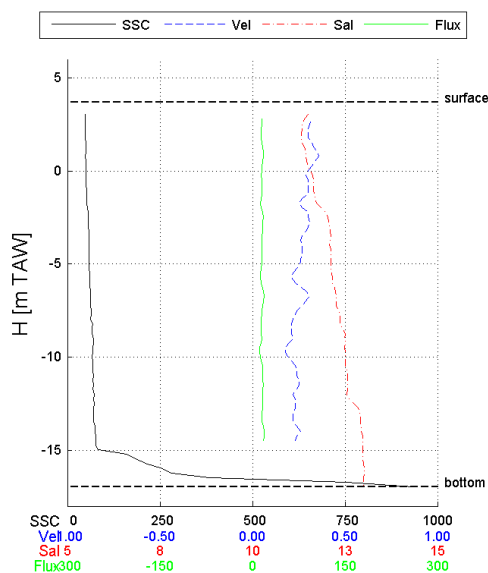
Location:

Deurganckdok Ye



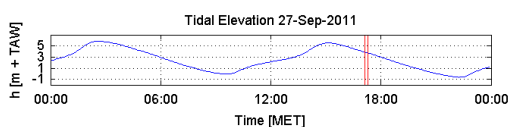
Easting [m UTM31-WGS84] 588704
Northing [m UTM31-WGS84] 5684414
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 160826
Water level [m TAW] 4.86
Water-bottom interface [m TAW] -16.86

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.12	0.45	11.27	22.40
1.50	58.48	0.36	11.98	20.72
0.00	63.40	0.30	12.16	19.02
-1.50	70.46	0.25	12.29	17.60
-3.00	95.85	0.11	12.62	10.51
-4.50	129.70	0.08	12.72	10.21
-6.00	163.24	0.04	12.77	6.90
-7.50	161.86	-0.00	12.92	-0.82
-9.00	146.26	-0.16	13.12	-23.87
-10.50	126.30	-0.19	13.31	-23.71
-12.00	118.57	-0.24	13.38	-28.95
-13.50	107.32	-0.22	13.48	-23.17
-15.00	122.71	-	13.50	-
-16.50	194.06	-	13.52	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588712
Northing [m UTM31-WGS84] 5684395
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 171743
Water level [m TAW] 3.70
Water-bottom interface [m TAW] -16.96

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	47.83	-	11.49	-
1.50	49.59	0.32	11.35	15.77
0.00	50.80	0.30	11.58	15.21
-1.50	52.86	0.27	11.70	13.98
-3.00	56.14	0.30	12.07	16.60
-4.50	57.90	0.27	12.13	15.59
-6.00	60.97	0.23	12.17	14.28
-7.50	65.33	0.24	12.32	15.91
-9.00	70.77	0.22	12.49	15.85
-10.50	69.29	0.23	12.53	16.11
-12.00	71.93	0.22	12.57	16.12
-13.50	71.98	0.22	12.93	16.17
-15.00	92.65	-	12.98	-
-16.50	400.55	-	13.01	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

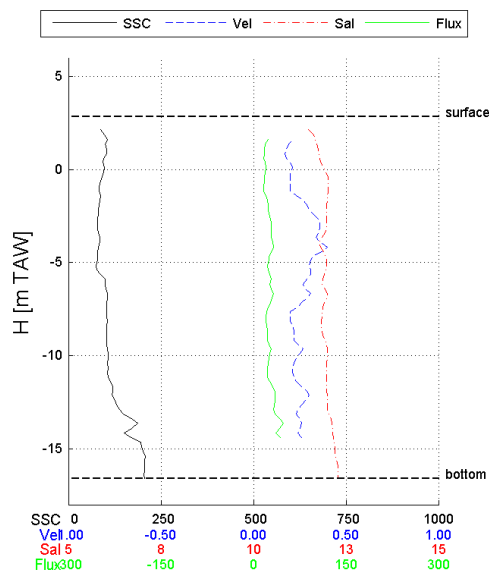
Siltprofiler, ADCP

Sourcefile(s):

1142Ye_1_00.txt
1157Ye_1_00.txt

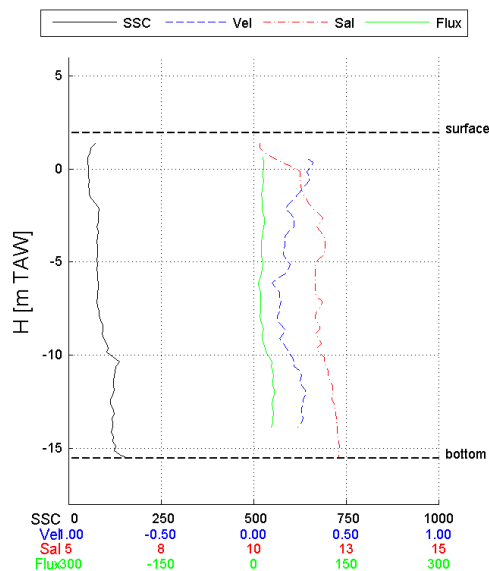
Location:

Deurganckdok Ye



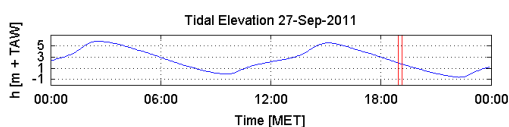
Easting [m UTM31-WGS84] 588699
Northing [m UTM31-WGS84] 5684394
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 180826
Water level [m TAW] 2.84
Water-bottom interface [m TAW] -16.60

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	102.83	0.21	11.70	21.58
0.00	96.46	0.21	11.92	19.75
-1.50	85.99	0.25	12.00	21.21
-3.00	78.82	0.36	11.97	28.32
-4.50	78.65	0.35	11.92	27.39
-6.00	99.57	0.28	11.87	27.84
-7.50	103.49	0.22	11.86	22.88
-9.00	103.53	0.22	11.90	22.29
-10.50	106.99	0.22	11.98	23.19
-12.00	119.30	0.29	11.98	34.91
-13.50	178.73	0.25	12.11	46.00
-15.00	199.49	-	12.20	-
-16.50	204.76	-	12.28	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588683
Northing [m UTM31-WGS84] 5684401
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 185721
Water level [m TAW] 1.95
Water-bottom interface [m TAW] -15.52

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	53.77	0.30	11.15	16.07
-1.50	59.59	0.23	11.39	13.44
-3.00	79.16	0.22	11.76	17.26
-4.50	78.37	0.16	11.91	12.60
-6.00	80.26	0.11	11.67	9.07
-7.50	81.11	0.14	11.77	11.35
-9.00	93.38	0.15	11.74	13.84
-10.50	133.14	0.22	11.95	29.22
-12.00	121.12	0.28	12.14	33.68
-13.50	118.79	0.26	12.25	31.39
-15.00	125.97	-	12.31	-
-16.50	-	-	-	-
-18.00	-	-	-	-



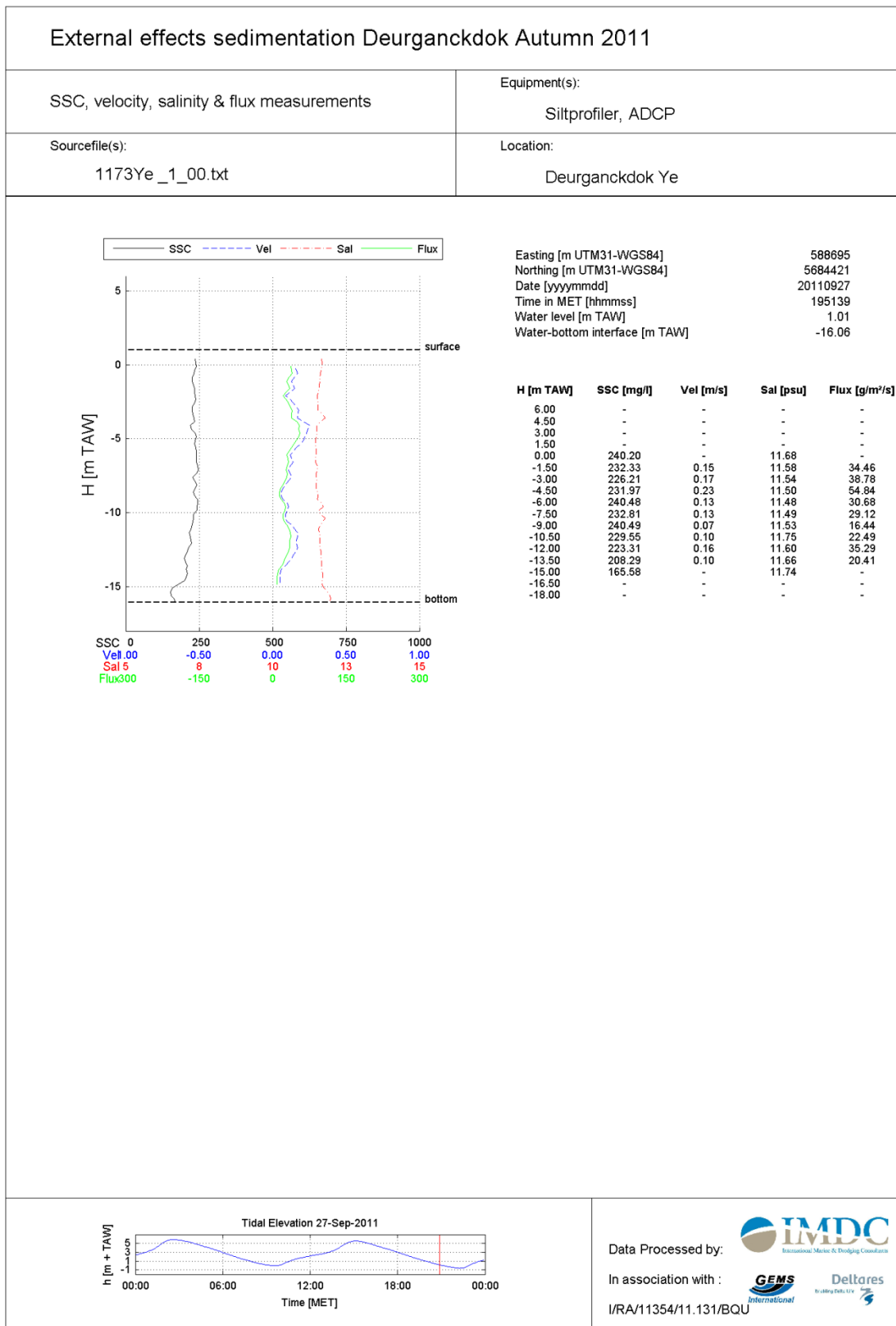
Data Processed by:



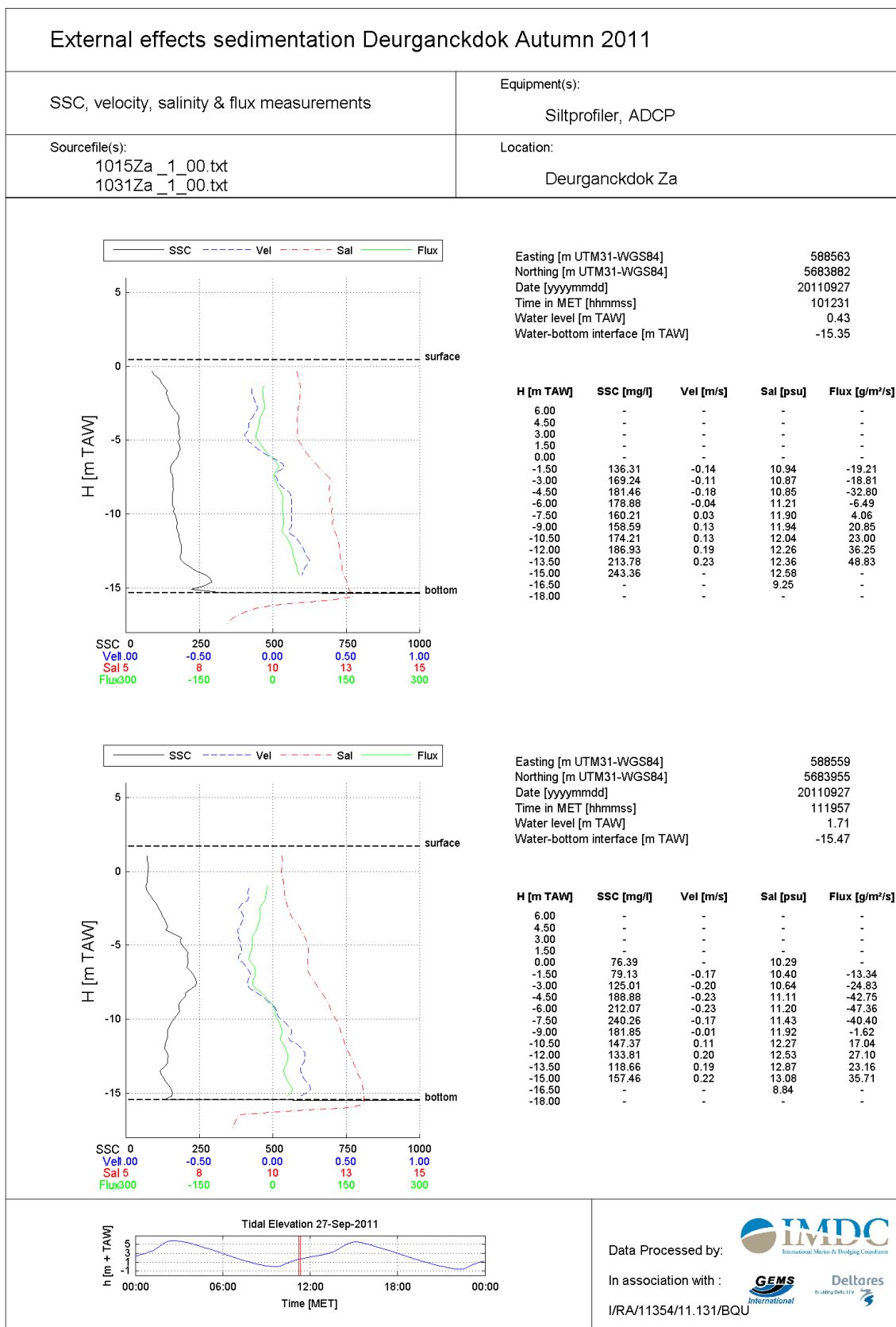
In association with:



I/RA/11354/11.131/BQU



D.12 Location Za



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

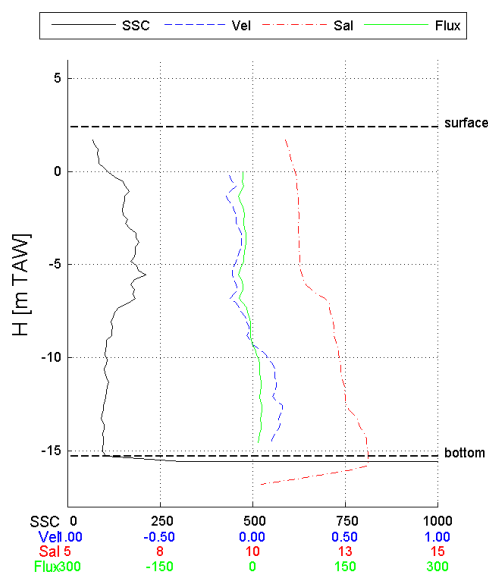
Siltprofiler, ADCP

Sourcefile(s):

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1063Za_1_00.txt

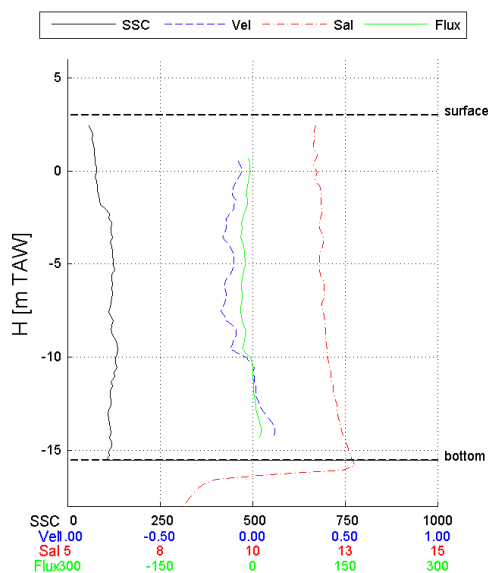
Location:

Deurganckdok Za



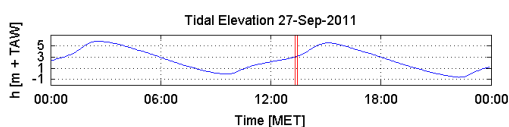
Easting [m UTM31-WGS84] 588560
Northing [m UTM31-WGS84] 5683981
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 122635
Water level [m TAW] 2.41
Water-bottom interface [m TAW] -15.31

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	72.41	-	10.93	-
0.00	109.08	-	11.15	-
-1.50	154.54	-0.13	11.23	-20.37
-3.00	166.22	-0.08	11.23	-13.10
-4.50	181.44	-0.08	11.27	-13.79
-6.00	174.05	-0.09	11.43	-16.33
-7.50	130.22	-0.06	12.11	-7.93
-9.00	107.92	-0.01	12.24	-1.67
-10.50	100.70	0.12	12.38	11.51
-12.00	103.33	0.11	12.50	11.69
-13.50	97.37	0.15	12.87	14.23
-15.00	95.07	-	13.12	-
-16.50	-	-	11.22	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588564
Northing [m UTM31-WGS84] 5683959
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 131829
Water level [m TAW] 2.99
Water-bottom interface [m TAW] -15.54

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	69.16	-	11.66	-
0.00	78.61	-0.06	11.75	-4.67
-1.50	86.94	-0.09	11.86	-8.36
-3.00	118.21	-0.14	11.81	-16.58
-4.50	121.32	-0.10	11.82	-12.54
-6.00	121.35	-0.15	11.92	-17.92
-7.50	111.72	-0.17	11.91	-18.88
-9.00	127.77	-0.10	11.98	-12.35
-10.50	132.87	0.01	12.08	0.61
-12.00	115.61	0.02	12.21	2.34
-13.50	114.18	0.11	12.35	11.67
-15.00	113.26	-	12.61	-
-16.50	-	-	9.26	-
-18.00	-	-	8.17	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

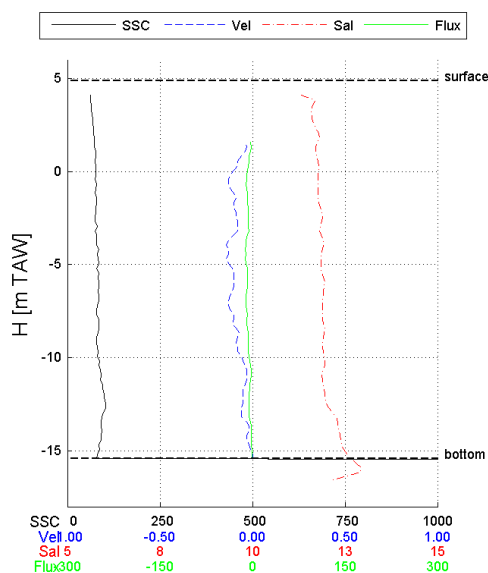
Siltprofiler, ADCP

Sourcefile(s):

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1097Za_1_00.txt

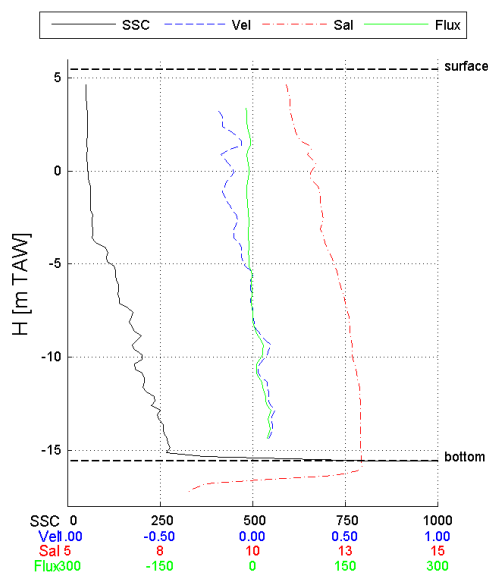
Location:

Deurganckdok Za



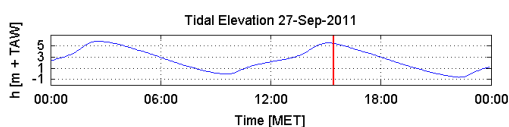
Easting [m UTM31-WGS84] 588579
Northing [m UTM31-WGS84] 5683944
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 142352
Water level [m TAW] 4.87
Water-bottom interface [m TAW] -15.42

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	67.58	-	11.60	-
1.50	72.62	-0.04	11.74	-2.76
0.00	77.03	-0.11	11.79	-8.09
-1.50	78.20	-0.09	11.79	-7.51
-3.00	78.79	-0.08	11.82	-6.22
-4.50	81.74	-0.13	11.86	-11.15
-6.00	85.08	-0.10	11.95	-8.42
-7.50	78.20	-0.11	11.89	-8.91
-9.00	78.59	-0.08	11.90	-6.48
-10.50	86.86	-0.04	11.93	-2.87
-12.00	100.25	-0.05	11.96	-5.27
-13.50	91.83	-0.03	12.31	-2.78
-15.00	85.43	-0.01	12.50	-0.53
-16.50	-	-	12.31	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588565
Northing [m UTM31-WGS84] 5683982
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 152525
Water level [m TAW] 5.43
Water-bottom interface [m TAW] -15.59

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	49.72	-	10.93	-
3.00	53.66	-0.17	11.04	-9.00
1.50	52.44	-0.06	11.42	-3.04
0.00	54.67	-0.10	11.60	-5.80
-1.50	62.04	-0.14	11.84	-8.74
-3.00	67.44	-0.10	11.86	-6.31
-4.50	106.97	-0.06	12.11	-6.07
-6.00	135.77	-0.01	12.35	-1.50
-7.50	172.46	0.00	12.57	0.16
-9.00	192.30	0.06	12.67	12.00
-10.50	182.40	0.03	12.78	6.51
-12.00	226.59	0.09	12.90	20.29
-13.50	253.96	0.11	12.92	26.71
-15.00	271.37	-	12.94	-
-16.50	-	-	11.02	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

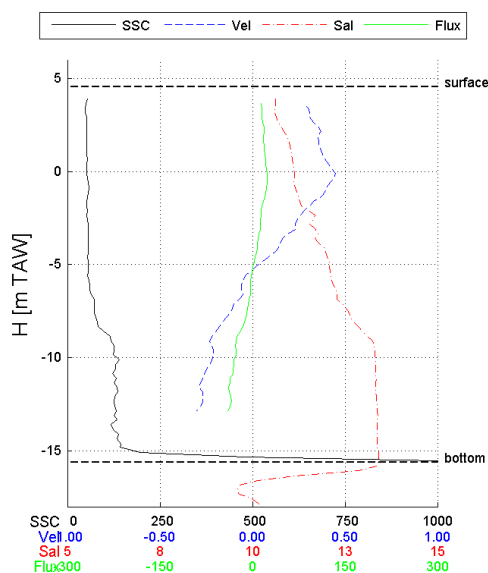
Siltprofiler, ADCP

Sourcefile(s):

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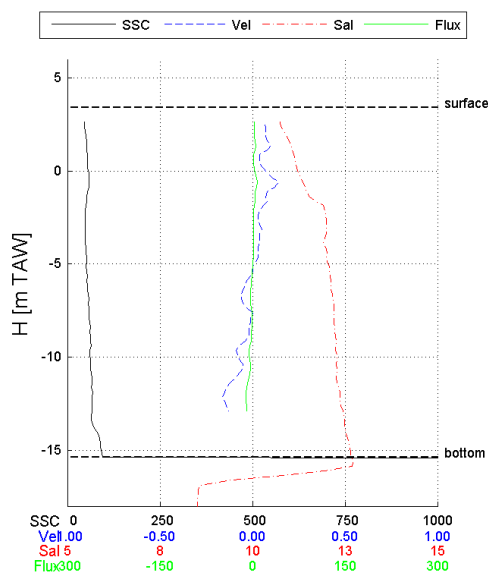
Location:

Deurganckdok Za



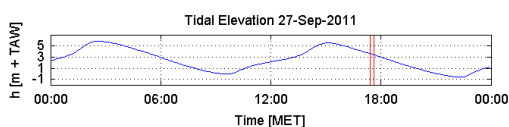
Easting [m UTM31-WGS84] 588568
Northing [m UTM31-WGS84] 5683979
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 162404
Water level [m TAW] 4.57
Water-bottom interface [m TAW] -15.60

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	50.82	0.31	10.63	15.60
1.50	51.99	0.36	11.00	18.69
0.00	53.16	0.44	11.13	23.36
-1.50	53.25	0.35	11.26	18.45
-3.00	56.60	0.23	11.65	12.95
-4.50	54.99	0.10	12.01	5.35
-6.00	59.85	-0.06	12.17	-3.35
-7.50	73.31	-0.12	12.59	-8.51
-9.00	117.39	-0.23	13.19	-26.34
-10.50	129.57	-0.24	13.33	-31.14
-12.00	130.72	-0.27	13.35	-35.36
-13.50	123.62	-	13.38	-
-15.00	176.13	-	13.41	-
-16.50	-	-	10.49	-
-18.00	-	-	10.23	-



Easting [m UTM31-WGS84] 588567
Northing [m UTM31-WGS84] 5683968
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 173602
Water level [m TAW] 3.41
Water-bottom interface [m TAW] -15.37

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	51.87	0.09	11.02	4.76
0.00	56.59	0.07	11.22	4.11
-1.50	51.98	0.08	11.64	3.96
-3.00	48.17	0.05	11.99	2.07
-4.50	50.85	0.03	12.00	1.61
-6.00	53.34	-0.04	12.12	-1.83
-7.50	58.24	-0.01	12.20	-0.86
-9.00	62.15	-0.03	12.25	-1.93
-10.50	62.02	-0.05	12.27	-2.96
-12.00	67.36	-0.16	12.37	-10.45
-13.50	67.43	-	12.48	-
-15.00	91.24	-	12.65	-
-16.50	-	-	10.06	-
-18.00	-	-	8.51	-



Data Processed by:



In association with:



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External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

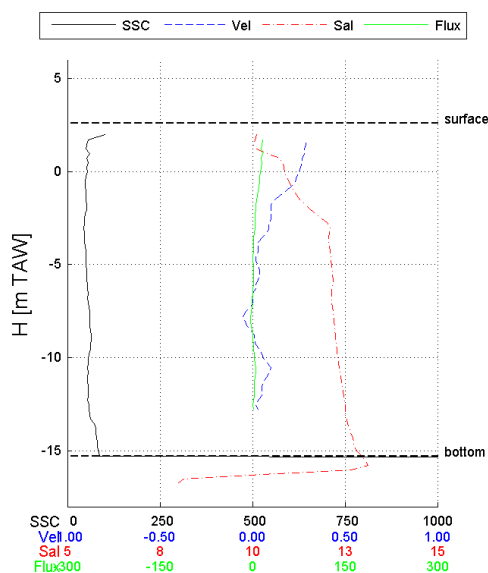
Siltprofiler, ADCP

Sourcefile(s):

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1162Za_1_00.txt

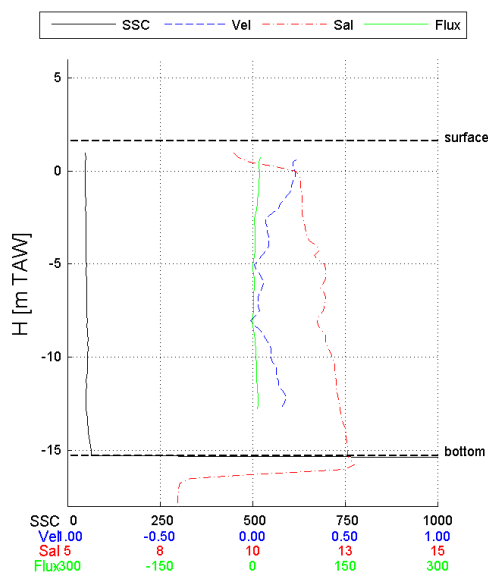
Location:

Deurganckdok Za



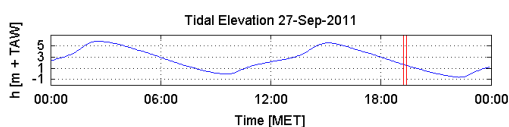
Easting [m UTM31-WGS84] 588573
Northing [m UTM31-WGS84] 5683951
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 182359
Water level [m TAW] 2.59
Water-bottom interface [m TAW] -15.29

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	52.12	0.29	10.03	14.98
0.00	53.74	0.25	10.87	13.52
-1.50	49.98	0.12	11.28	6.34
-3.00	44.71	0.09	12.10	3.89
-4.50	49.71	0.02	12.13	1.17
-6.00	53.80	0.02	12.17	1.39
-7.50	60.32	-0.04	12.18	-2.10
-9.00	64.46	0.01	12.25	0.58
-10.50	53.64	0.10	12.34	5.20
-12.00	56.30	0.05	12.47	2.54
-13.50	70.94	-	12.58	-
-15.00	84.73	-	12.83	-
-16.50	-	-	8.38	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588567
Northing [m UTM31-WGS84] 5683960
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 191417
Water level [m TAW] 1.60
Water-bottom interface [m TAW] -15.28

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	48.03	0.23	11.10	11.13
-1.50	49.63	0.17	11.35	8.54
-3.00	49.66	0.08	11.43	3.77
-4.50	50.39	0.05	11.69	2.69
-6.00	51.60	0.06	11.92	2.84
-7.50	52.17	0.04	11.91	1.88
-9.00	55.48	0.07	11.97	4.01
-10.50	54.40	0.13	12.23	6.83
-12.00	50.13	0.18	12.30	8.91
-13.50	54.42	-	12.44	-
-15.00	64.58	-	12.58	-
-16.50	-	-	8.57	-
-18.00	-	-	7.98	-



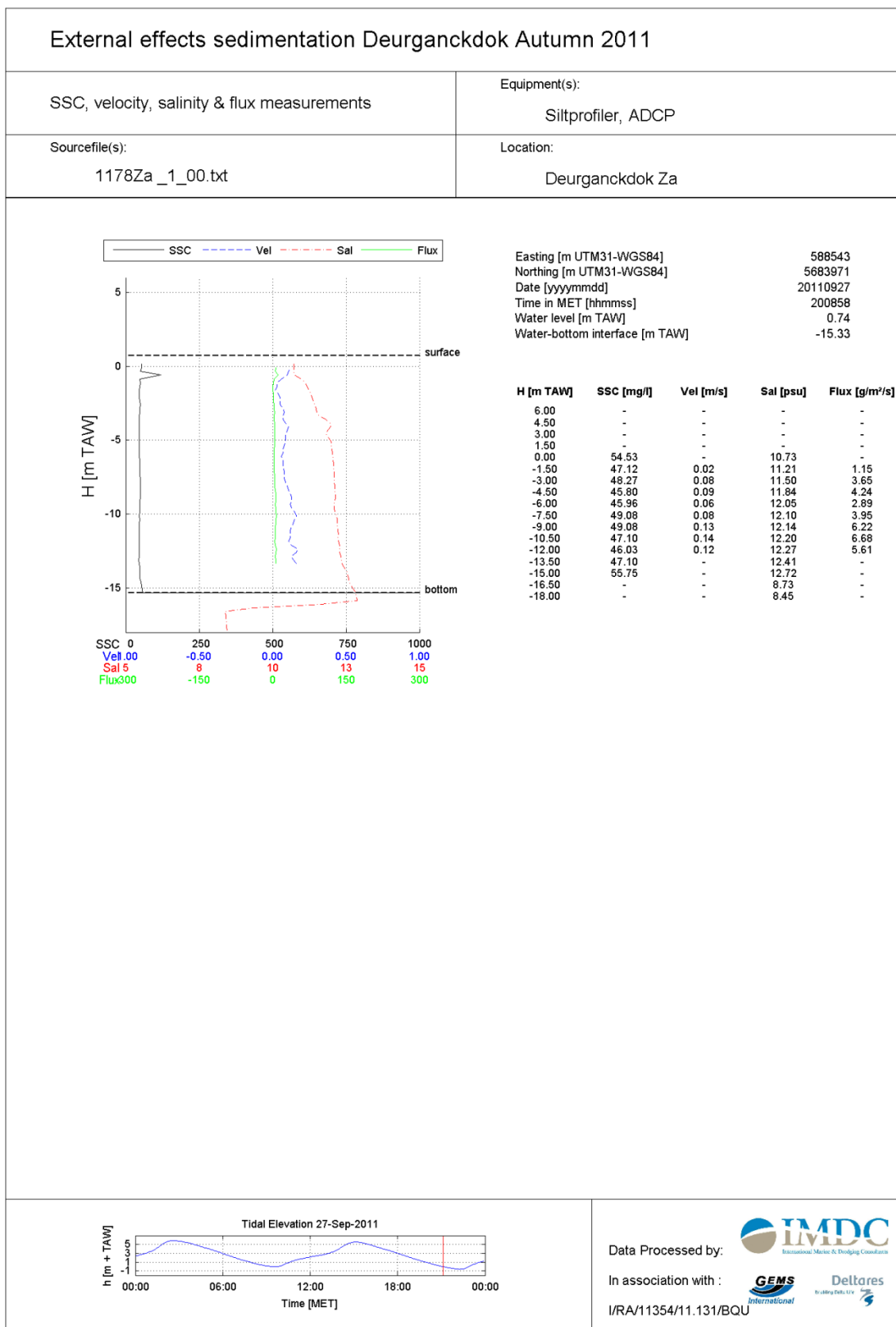
Data Processed by:



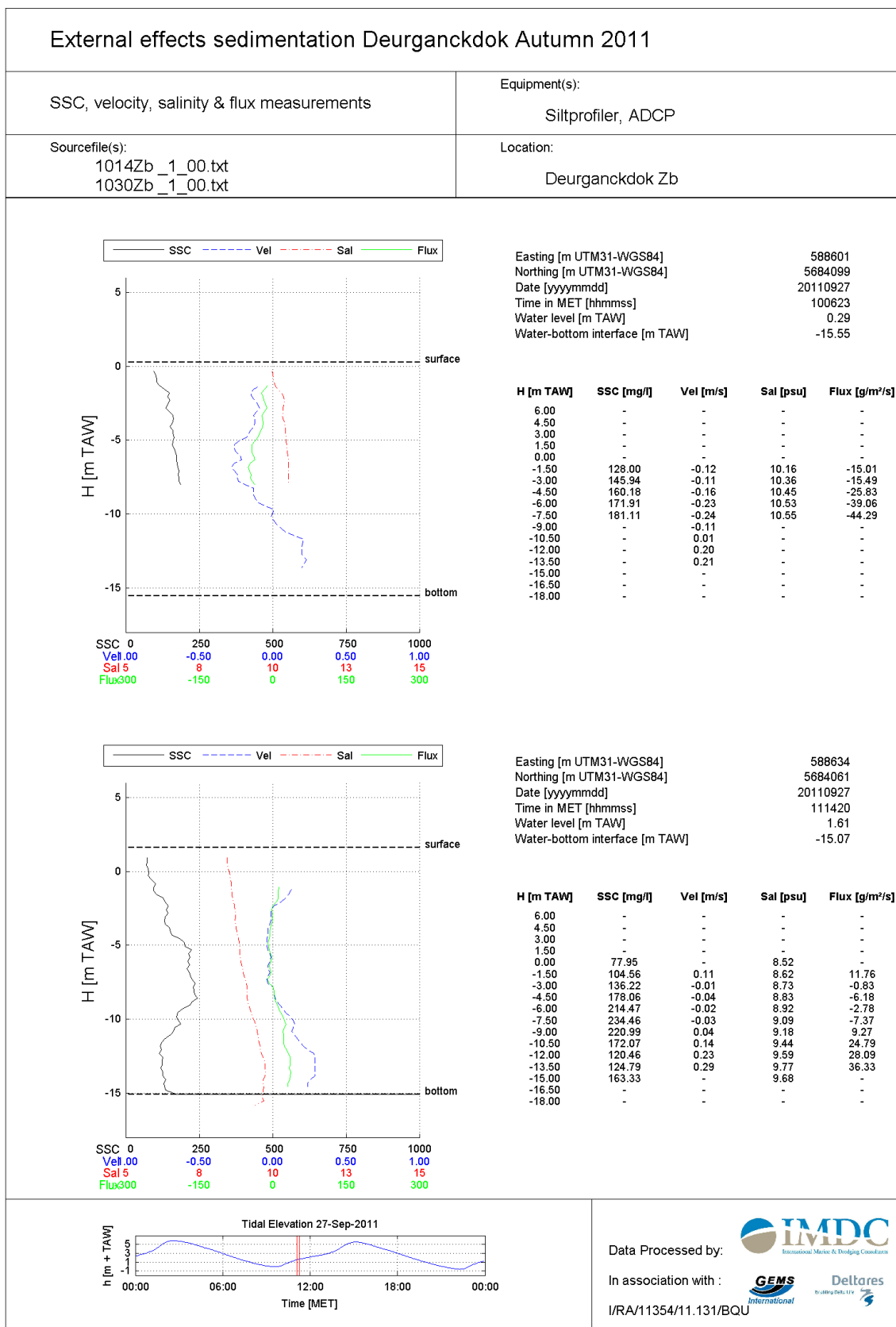
In association with:



I/RA/11354/11.131/BQU



D.13 Location Zb



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

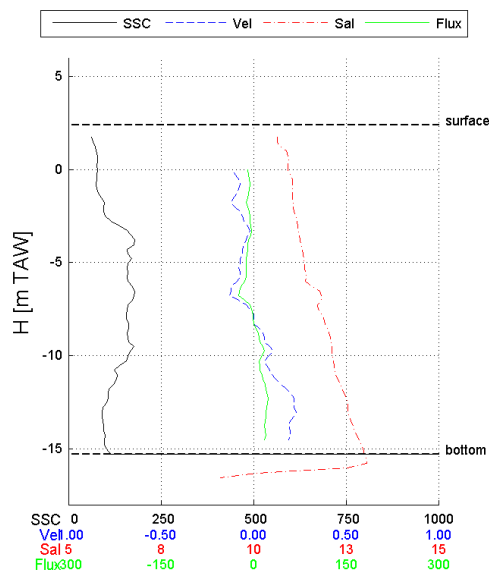
Siltprofiler, ADCP

Sourcefile(s):

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1062Zb_1_00.txt

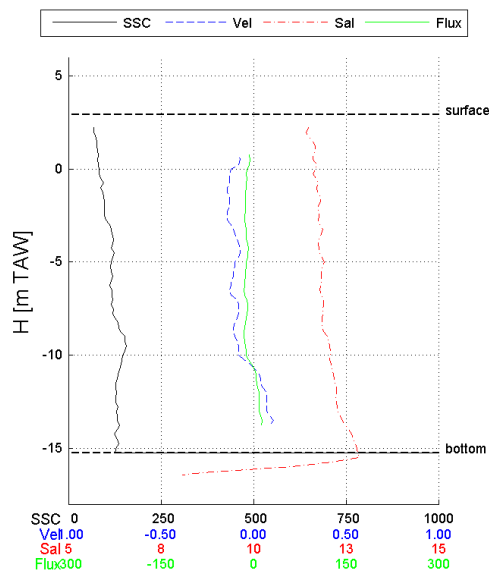
Location:

Deurganckdok Zb



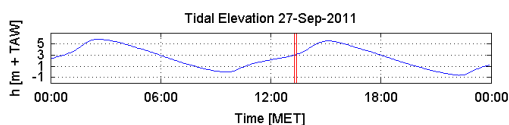
Easting [m UTM31-WGS84] 588590
Northing [m UTM31-WGS84] 5684042
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 122348
Water level [m TAW] 2.38
Water-bottom interface [m TAW] -15.27

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	65.73	-	10.65	-
0.00	78.41	-	10.93	-
-1.50	88.76	-0.11	11.06	-9.27
-3.00	135.41	-0.03	11.19	-4.91
-4.50	160.76	-0.06	11.35	-10.32
-6.00	161.80	-0.09	11.41	-14.59
-7.50	159.33	-0.02	11.75	-2.77
-9.00	161.67	0.06	12.09	9.06
-10.50	139.13	0.07	12.19	10.10
-12.00	108.00	0.20	12.44	22.01
-13.50	93.25	0.20	12.64	18.53
-15.00	104.17	-	12.96	-
-16.50	-	-	9.35	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588603
Northing [m UTM31-WGS84] 5684034
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 131547
Water level [m TAW] 2.94
Water-bottom interface [m TAW] -15.25

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	77.35	-	11.61	-
0.00	83.43	-0.12	11.67	-9.76
-1.50	96.13	-0.13	11.82	-12.51
-3.00	111.68	-0.12	11.80	-12.94
-4.50	124.49	-0.07	11.80	-8.95
-6.00	116.72	-0.12	11.83	-13.84
-7.50	121.81	-0.08	11.88	-9.81
-9.00	151.95	-0.10	11.99	-15.43
-10.50	141.73	-0.02	12.10	-2.52
-12.00	129.97	0.07	12.24	8.65
-13.50	131.72	0.11	12.40	14.23
-15.00	128.46	-	12.79	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

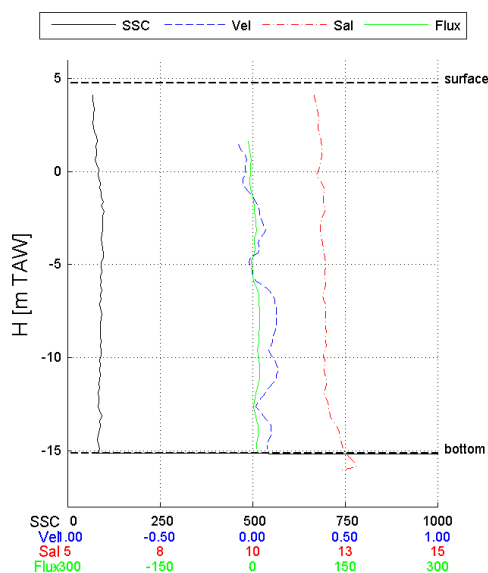
Siltprofiler, ADCP

Sourcefile(s):

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1096Zb_1_00.txt

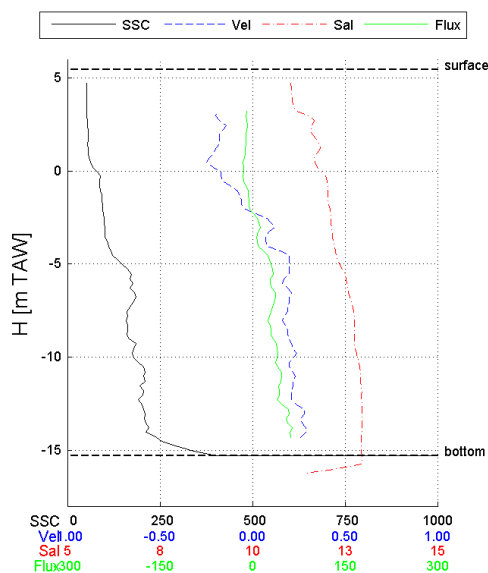
Location:

Deurganckdok Zb



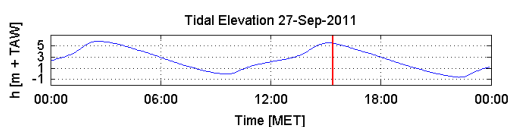
Easting [m UTM31-WGS84] 588632
Northing [m UTM31-WGS84] 5684037
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 142114
Water level [m TAW] 4.77
Water-bottom interface [m TAW] -15.13

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	70.45	-	11.79	-
1.50	78.12	-0.07	11.86	-5.82
0.00	83.62	-0.04	11.76	-3.56
-1.50	94.56	0.01	11.92	0.94
-3.00	95.76	0.07	11.84	6.02
-4.50	97.21	0.01	11.94	0.87
-6.00	90.06	0.04	11.98	3.99
-7.50	91.12	0.13	11.98	11.74
-9.00	90.71	0.11	11.98	10.12
-10.50	87.67	0.14	11.95	11.57
-12.00	84.18	0.06	11.95	4.81
-13.50	88.34	0.09	12.22	8.02
-15.00	84.47	-	12.48	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588667
Northing [m UTM31-WGS84] 5684115
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 152257
Water level [m TAW] 5.45
Water-bottom interface [m TAW] -15.30

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	51.45	-	11.05	-
3.00	51.98	-0.20	11.47	-10.32
1.50	54.60	-0.18	11.81	-10.02
0.00	78.82	-0.18	11.86	-14.23
-1.50	92.37	-0.06	12.03	-5.80
-3.00	100.46	0.12	12.15	12.01
-4.50	122.06	0.19	12.27	23.73
-6.00	176.67	0.16	12.56	28.40
-7.50	161.84	0.19	12.73	30.26
-9.00	166.96	0.20	12.76	32.89
-10.50	203.63	0.20	12.89	40.77
-12.00	204.71	0.21	12.94	43.22
-13.50	212.41	0.27	12.97	56.72
-15.00	333.07	-	12.95	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

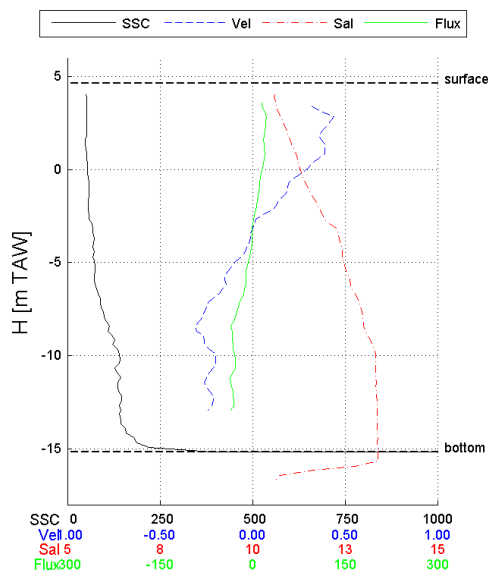
Siltprofiler, ADCP

Sourcefile(s):

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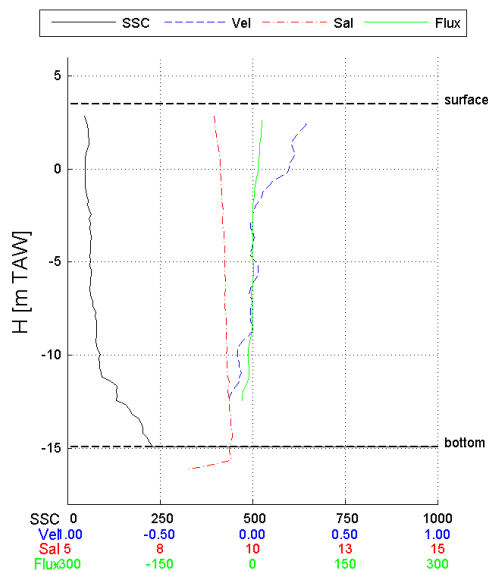
Location:

Deurganckdok Zb



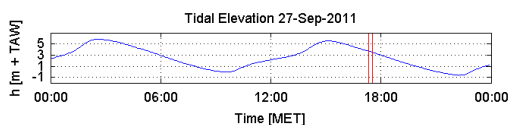
Easting [m UTM31-WGS84] 588622
Northing [m UTM31-WGS84] 5684049
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 162033
Water level [m TAW] 4.63
Water-bottom interface [m TAW] -15.16

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	51.88	0.40	10.73	20.81
1.50	48.42	0.38	11.04	18.34
0.00	54.80	0.29	11.29	15.74
-1.50	57.40	0.16	11.64	9.01
-3.00	66.91	0.01	12.16	0.33
-4.50	71.13	-0.05	12.43	-3.50
-6.00	74.06	-0.15	12.64	-10.74
-7.50	93.66	-0.25	12.94	-23.85
-9.00	123.15	-0.27	13.14	-32.52
-10.50	135.61	-0.20	13.33	-27.83
-12.00	141.80	-0.22	13.35	-31.47
-13.50	144.42	-	13.37	-
-15.00	281.53	-	13.39	-
-16.50	-	-	10.69	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588627
Northing [m UTM31-WGS84] 5684100
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 173215
Water level [m TAW] 3.48
Water-bottom interface [m TAW] -14.91

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	58.11	0.22	9.06	12.63
0.00	48.29	0.20	9.13	9.46
-1.50	53.75	0.05	9.17	2.55
-3.00	61.27	-0.01	9.21	-0.60
-4.50	61.86	-0.01	9.26	-0.56
-6.00	63.19	0.01	9.27	0.58
-7.50	71.88	-0.01	9.26	-0.65
-9.00	78.46	-0.03	9.30	-2.28
-10.50	86.35	-0.07	9.31	-6.27
-12.00	132.86	-0.11	9.35	-15.49
-13.50	195.77	-	9.42	-
-15.00	2891.34	-	9.38	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

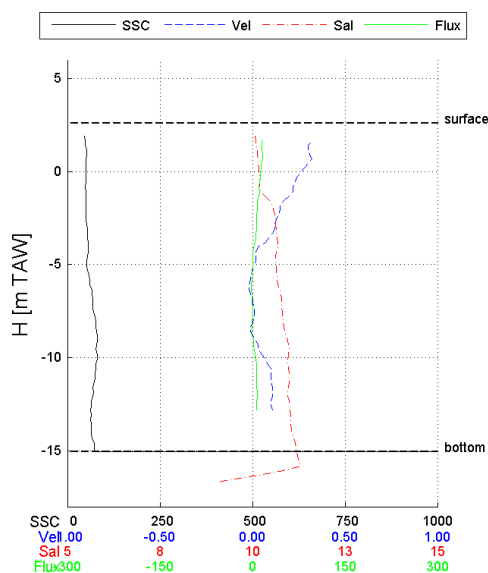
Siltprofiler, ADCP

Sourcefile(s):

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1161Zb_1_00.txt

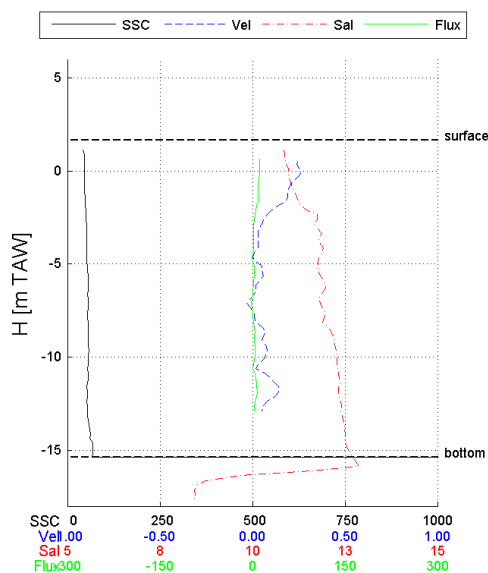
Location:

Deurganckdok Zb



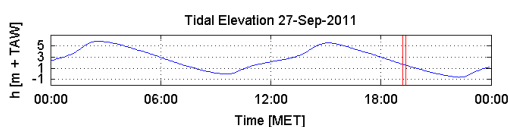
Easting [m UTM31-WGS84] 588614
Northing [m UTM31-WGS84] 5684054
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 182106
Water level [m TAW] 2.60
Water-bottom interface [m TAW] -15.05

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	48.81	0.31	10.10	15.21
0.00	50.76	0.27	10.18	13.37
-1.50	49.82	0.18	10.43	8.81
-3.00	53.32	0.12	10.64	6.37
-4.50	54.68	0.02	10.63	1.09
-6.00	60.18	-0.02	10.68	-1.14
-7.50	70.26	0.01	10.80	0.93
-9.00	80.38	0.01	10.94	0.97
-10.50	76.19	0.10	10.98	7.10
-12.00	68.41	0.11	10.96	7.56
-13.50	64.30	-	11.04	-
-15.00	72.46	-	11.20	-
-16.50	-	-	9.54	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588574
Northing [m UTM31-WGS84] 5684015
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 191032
Water level [m TAW] 1.68
Water-bottom interface [m TAW] -15.36

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	46.53	0.25	10.97	11.86
-1.50	48.06	0.19	11.23	8.93
-3.00	51.87	0.04	11.71	1.99
-4.50	51.78	0.00	11.83	0.10
-6.00	56.37	0.03	11.95	1.67
-7.50	55.61	0.00	11.94	0.24
-9.00	56.22	0.05	12.19	3.03
-10.50	55.31	0.02	12.30	1.31
-12.00	53.55	0.13	12.34	7.09
-13.50	58.02	-	12.47	-
-15.00	69.41	-	12.61	-
-16.50	-	-	9.16	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

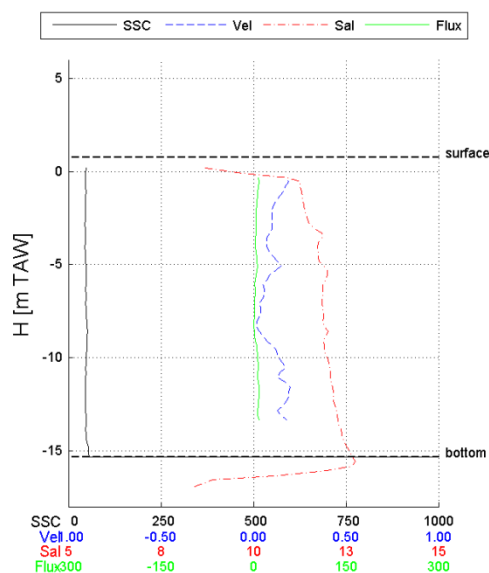
Siltprofiler, ADCP

Sourcefile(s):

1177Zb_1_00.txt

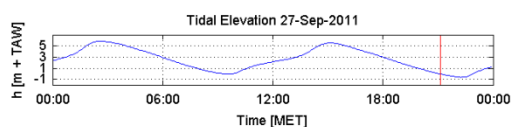
Location:

Deurganckdok Zb



Easting [m UTM31-WGS84] 588586
Northing [m UTM31-WGS84] 5684027
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 200644
Water level [m TAW] 0.78
Water-bottom interface [m TAW] -15.32

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	46.49	-	9.40	-
-1.50	47.01	0.13	11.34	5.80
-3.00	45.01	0.10	11.60	4.52
-4.50	45.78	0.10	11.75	4.78
-6.00	47.36	0.05	11.90	2.53
-7.50	48.14	0.04	11.89	1.92
-9.00	50.47	0.06	11.92	3.05
-10.50	46.71	0.17	12.05	7.82
-12.00	46.30	0.19	12.17	8.68
-13.50	48.81	-	12.30	-
-15.00	53.75	-	12.59	-
-16.50	-	-	9.22	-
-18.00	-	-	-	-



Data Processed by:

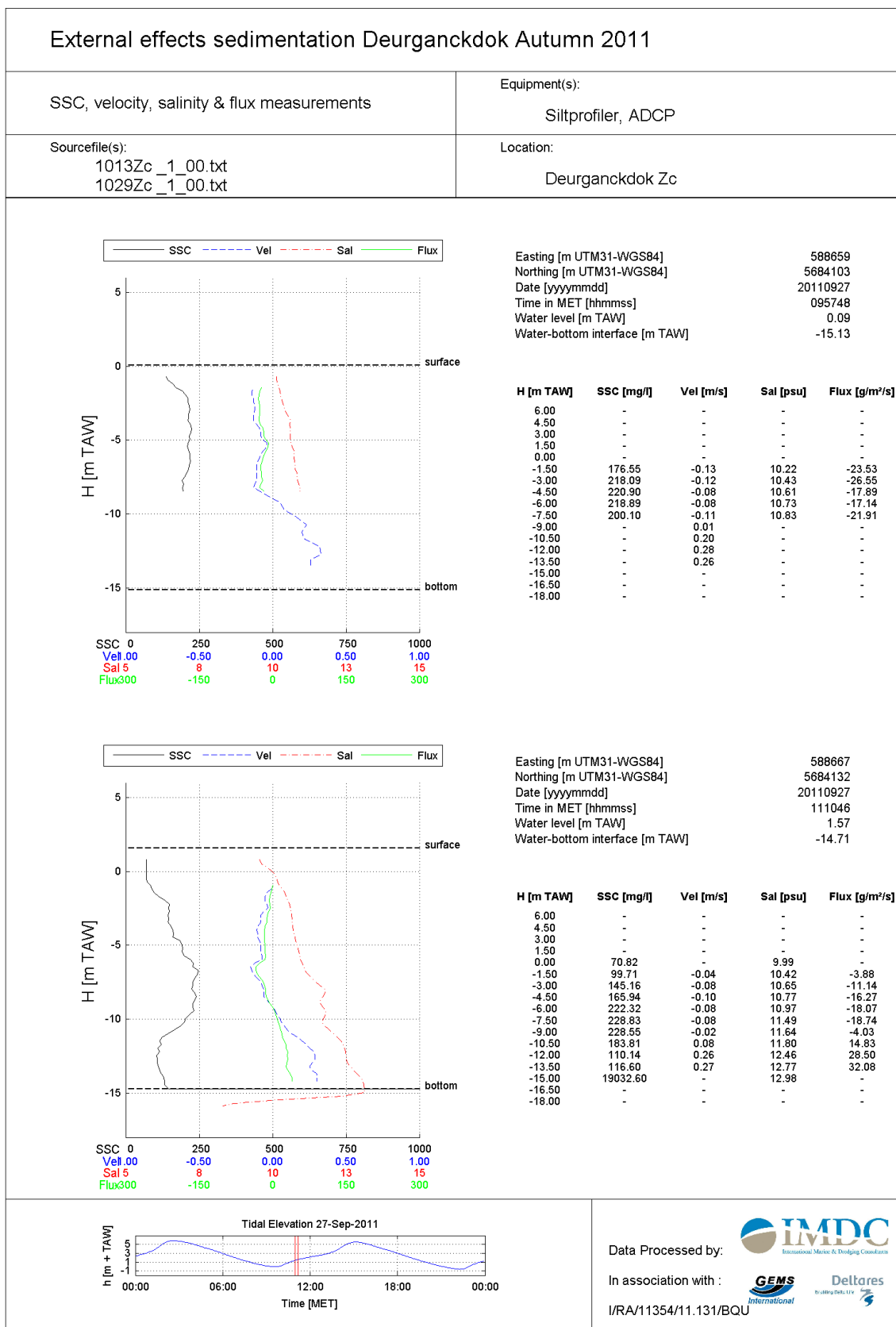


In association with:



I/RA/11354/11.131/BQU

D.14 Location Zc



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

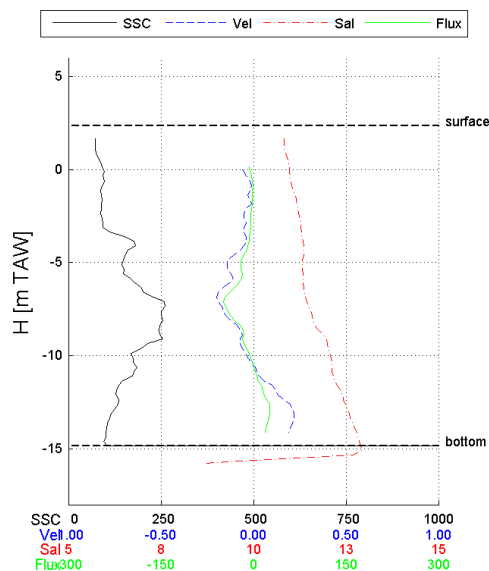
Siltprofiler, ADCP

Sourcefile(s):

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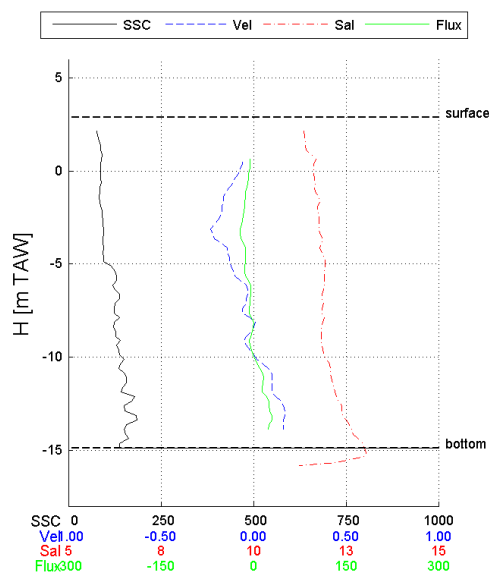
Location:

Deurganckdok Zc



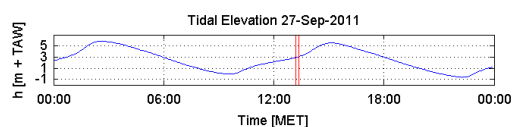
Easting [m UTM31-WGS84] 588660
Northing [m UTM31-WGS84] 5684090
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 122103
Water level [m TAW] 2.34
Water-bottom interface [m TAW] -14.85

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	72.77	-	10.83	-
0.00	94.16	-0.06	10.97	-5.70
-1.50	90.19	-0.02	11.15	-1.99
-3.00	93.03	-0.05	11.29	-4.22
-4.50	156.51	-0.09	11.36	-14.20
-6.00	174.13	-0.12	11.35	-22.01
-7.50	255.10	-0.16	11.52	-42.25
-9.00	251.94	-0.07	11.94	-16.86
-10.50	181.91	0.00	12.12	-0.02
-12.00	128.15	0.13	12.38	16.42
-13.50	108.60	0.21	12.65	23.59
-15.00	15012.87	-	12.92	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588655
Northing [m UTM31-WGS84] 5684115
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 131245
Water level [m TAW] 2.90
Water-bottom interface [m TAW] -14.87

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	84.59	-	11.41	-
0.00	87.52	-0.08	11.63	-6.82
-1.50	84.51	-0.16	11.79	-13.63
-3.00	94.23	-0.22	11.78	-20.81
-4.50	94.51	-0.13	11.89	-12.82
-6.00	124.76	-0.06	11.92	-6.59
-7.50	124.43	-0.06	11.85	-7.36
-9.00	133.86	-0.05	11.84	-6.02
-10.50	138.45	0.07	12.07	8.90
-12.00	161.85	0.11	12.22	17.98
-13.50	170.23	0.16	12.55	27.31
-15.00	15843.17	-	13.03	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

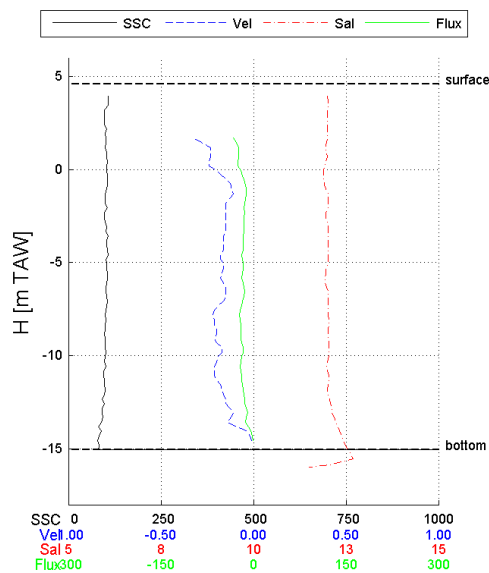
Siltprofiler, ADCP

Sourcefile(s):

1078Zc_1_00.txt
1095Zc_1_00.txt

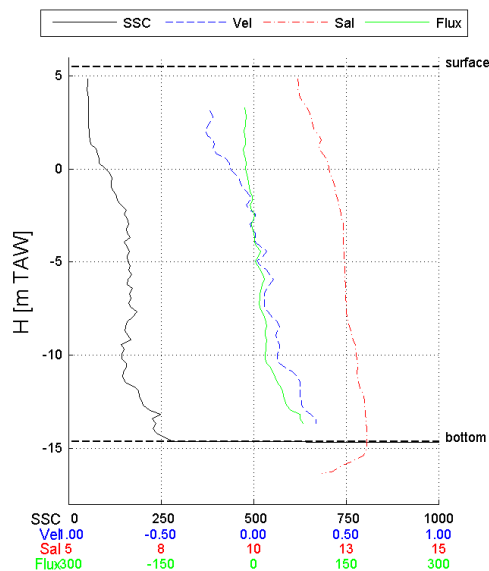
Location:

Deurganckdok Zc



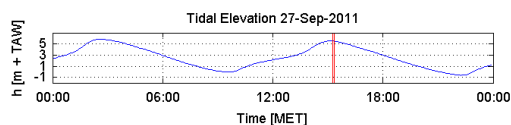
Easting [m UTM31-WGS84] 588675
Northing [m UTM31-WGS84] 5684086
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 141611
Water level [m TAW] 4.58
Water-bottom interface [m TAW] -15.05

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	97.66	-	12.00	-
1.50	100.71	-0.29	11.98	-29.17
0.00	103.16	-0.21	11.90	-21.84
-1.50	99.82	-0.12	12.01	-12.72
-3.00	101.89	-0.15	12.01	-15.53
-4.50	106.39	-0.17	12.01	-18.38
-6.00	104.59	-0.17	11.93	-17.42
-7.50	102.00	-0.21	12.02	-21.01
-9.00	99.20	-0.21	12.02	-20.31
-10.50	99.88	-0.21	11.97	-20.84
-12.00	98.12	-0.16	12.01	-16.27
-13.50	90.51	-0.14	12.22	-12.31
-15.00	81.05	-	12.54	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588699
Northing [m UTM31-WGS84] 5684180
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 152002
Water level [m TAW] 5.49
Water-bottom interface [m TAW] -14.65

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	51.25	-	11.20	-
3.00	54.67	-0.23	11.52	-12.55
1.50	58.73	-0.22	11.82	-12.52
0.00	100.31	-0.12	12.04	-12.19
-1.50	130.40	-0.02	12.25	-2.09
-3.00	161.16	-0.02	12.42	-3.13
-4.50	163.62	0.06	12.44	11.07
-6.00	161.00	0.10	12.47	17.07
-7.50	173.60	0.06	12.50	11.46
-9.00	162.81	0.12	12.67	19.53
-10.50	156.43	0.15	12.81	22.97
-12.00	189.38	0.25	12.93	47.27
-13.50	229.69	0.34	13.04	77.45
-15.00	19186.21	-	13.05	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

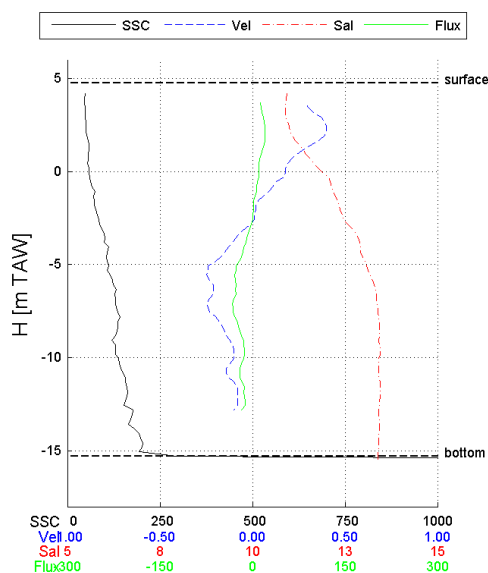
Siltprofiler, ADCP

Sourcefile(s):

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1112Zc_1_00.txt

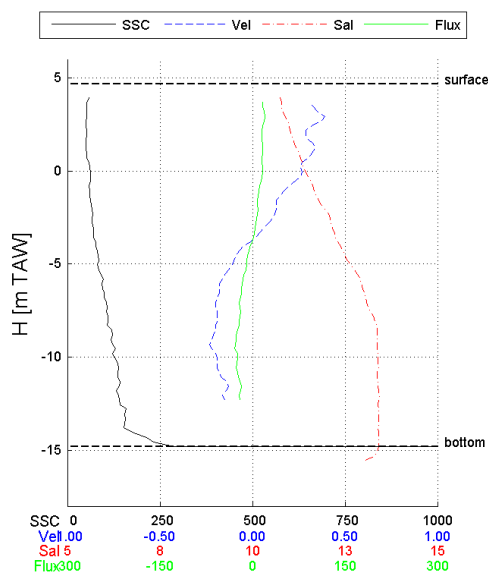
Location:

Deurganckdok Zc



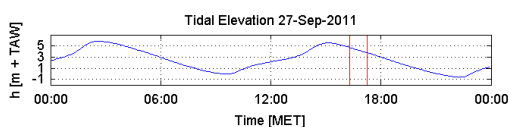
Easting [m UTM31-WGS84] 588715
Northing [m UTM31-WGS84] 5684116
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 161444
Water level [m TAW] 4.74
Water-bottom interface [m TAW] -15.31

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	48.68	0.36	10.90	17.37
1.50	58.49	0.33	11.23	19.27
0.00	58.95	0.18	11.87	10.74
-1.50	72.38	0.04	12.29	2.47
-3.00	92.24	-0.03	12.66	-3.24
-4.50	106.37	-0.17	12.98	-17.13
-6.00	123.30	-0.22	13.28	-26.68
-7.50	136.12	-0.23	13.40	-31.90
-9.00	122.52	-0.13	13.42	-15.39
-10.50	142.85	-0.14	13.42	-19.32
-12.00	161.96	-0.08	13.45	-13.56
-13.50	166.00	-	13.43	-
-15.00	195.59	-	13.39	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588669
Northing [m UTM31-WGS84] 5684118
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 161741
Water level [m TAW] 4.69
Water-bottom interface [m TAW] -14.81

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	51.93	0.38	10.87	19.66
1.50	50.63	0.33	11.13	16.68
0.00	62.31	0.27	11.43	16.68
-1.50	62.32	0.13	11.78	8.52
-3.00	69.71	0.07	12.16	4.35
-4.50	82.68	-0.09	12.48	-7.43
-6.00	94.68	-0.18	12.94	-16.57
-7.50	105.88	-0.19	13.17	-19.84
-9.00	119.10	-0.22	13.37	-26.53
-10.50	137.31	-0.19	13.41	-25.80
-12.00	137.25	-0.16	13.43	-21.33
-13.50	155.10	-	13.41	-
-15.00	37375.73	-	13.39	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

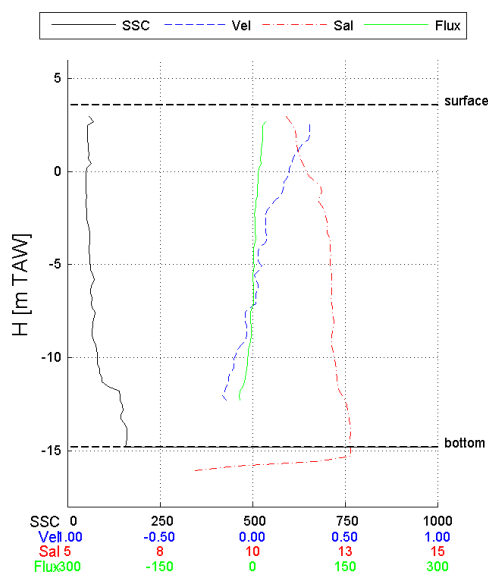
Siltprofiler, ADCP

Sourcefile(s):

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1145Zc_1_00.txt

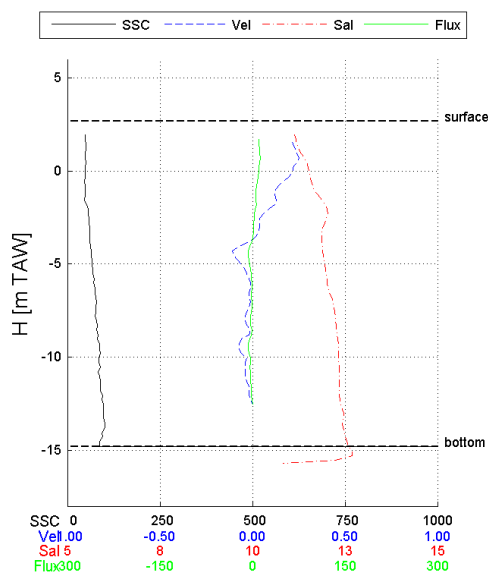
Location:

Deurganckdok Zc



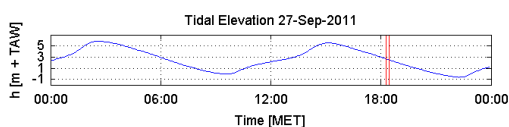
Easting [m UTM31-WGS84] 588650
Northing [m UTM31-WGS84] 5684113
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 172713
Water level [m TAW] 3.57
Water-bottom interface [m TAW] -14.81

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	55.95	0.28	11.20	15.28
0.00	49.99	0.20	11.46	9.88
-1.50	50.65	0.13	11.79	6.47
-3.00	58.00	0.07	12.02	4.04
-4.50	59.48	0.03	12.12	1.57
-6.00	67.19	0.03	12.15	1.75
-7.50	73.76	-0.03	12.16	-2.47
-9.00	70.47	-0.04	12.14	-2.42
-10.50	85.05	-0.10	12.26	-8.61
-12.00	141.23	-0.16	12.41	-21.90
-13.50	153.68	-	12.64	-
-15.00	17924.13	-	12.66	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588671
Northing [m UTM31-WGS84] 5684096
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 181637
Water level [m TAW] 2.68
Water-bottom interface [m TAW] -14.79

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	50.20	0.22	11.19	10.88
0.00	47.83	0.22	11.53	10.48
-1.50	46.58	0.13	11.86	5.91
-3.00	60.72	0.04	11.90	2.29
-4.50	64.84	-0.10	11.92	-6.38
-6.00	71.49	-0.01	12.01	-0.95
-7.50	76.46	-0.03	12.23	-2.28
-9.00	82.09	-0.05	12.31	-4.19
-10.50	89.31	-0.04	12.34	-3.84
-12.00	93.75	-0.02	12.35	-1.46
-13.50	100.79	-	12.43	-
-15.00	27807.14	-	12.67	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

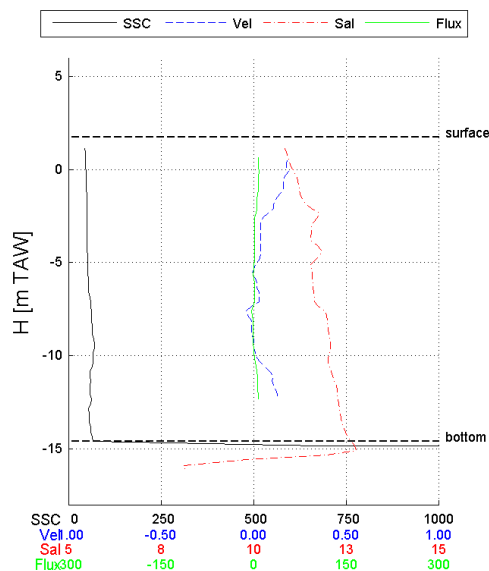
Siltprofiler, ADCP

Sourcefile(s):

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1176Zc_1_00.txt

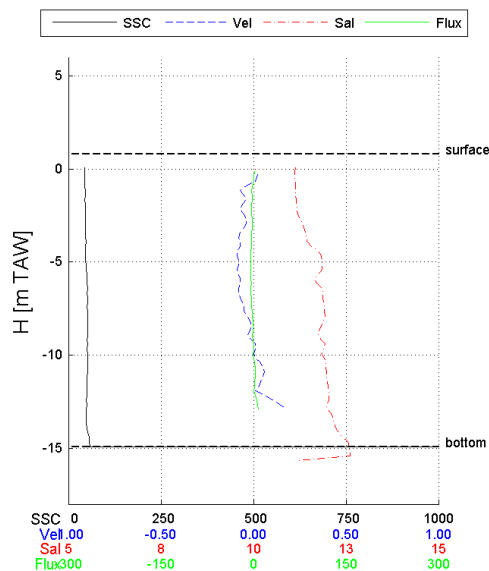
Location:

Deurganckdok Zc



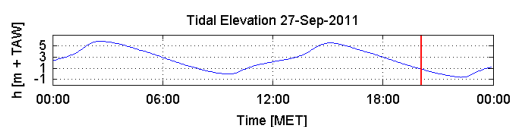
Easting [m UTM31-WGS84] 588662
Northing [m UTM31-WGS84] 5684113
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 190634
Water level [m TAW] 1.76
Water-bottom interface [m TAW] -14.59

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	47.04	0.19	11.07	8.60
-1.50	49.61	0.13	11.30	6.34
-3.00	50.17	0.04	11.58	1.95
-4.50	51.61	0.04	11.83	2.04
-6.00	53.53	0.02	11.60	0.98
-7.50	61.44	-0.03	11.86	-1.91
-9.00	66.91	-0.00	12.05	-0.30
-10.50	65.48	0.05	12.04	3.68
-12.00	58.49	0.13	12.27	7.24
-13.50	56.70	-	12.37	-
-15.00	36076.48	-	12.76	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588690
Northing [m UTM31-WGS84] 5684040
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 200358
Water level [m TAW] 0.81
Water-bottom interface [m TAW] -14.91

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	44.73	-	11.12	-
-1.50	45.39	-0.05	11.14	-2.23
-3.00	46.12	-0.04	11.34	-1.96
-4.50	46.50	-0.09	11.79	-4.07
-6.00	50.28	-0.07	11.68	-3.68
-7.50	51.49	-0.05	11.91	-2.65
-9.00	51.72	-0.02	11.78	-1.16
-10.50	52.23	0.04	11.96	2.19
-12.00	50.29	0.03	12.03	1.42
-13.50	48.55	-	12.17	-
-15.00	3911.31	-	12.60	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

D.15 Location Zd

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

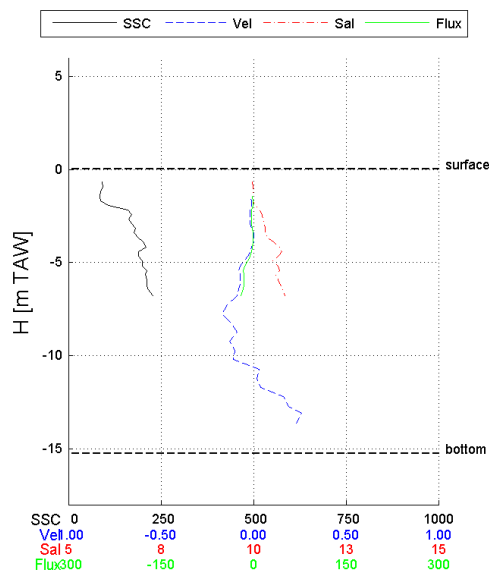
Siltprofiler, ADCP

Sourcefile(s):

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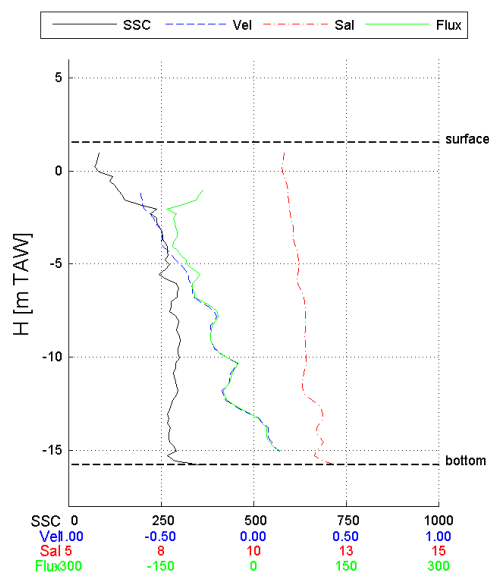
Location:

Deurganckdok Zd



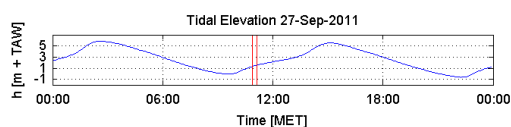
Easting [m UTM31-WGS84] 588698
Northing [m UTM31-WGS84] 5684187
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 095356
Water level [m TAW] 0.04
Water-bottom interface [m TAW] -15.24

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	85.47	-0.02	9.97	-1.16
-3.00	174.59	-0.02	10.30	-2.35
-4.50	190.25	-0.02	10.73	-3.79
-6.00	212.41	-0.07	10.68	-15.56
-7.50	-	-0.16	-	-
-9.00	-	-0.11	-	-
-10.50	-	-0.03	-	-
-12.00	-	0.11	-	-
-13.50	-	0.24	-	-
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588754
Northing [m UTM31-WGS84] 5684225
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 110742
Water level [m TAW] 1.52
Water-bottom interface [m TAW] -15.76

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	80.00	-	10.78	-
-1.50	151.39	-0.60	10.95	-91.61
-3.00	245.24	-0.51	11.07	-126.58
-4.50	268.74	-0.44	11.20	-117.90
-6.00	285.93	-0.34	11.19	-97.16
-7.50	274.32	-0.22	11.41	-59.91
-9.00	301.62	-0.23	11.40	-69.04
-10.50	289.71	-0.10	11.40	-27.72
-12.00	291.52	-0.16	11.40	-47.51
-13.50	267.93	0.05	11.81	13.42
-15.00	290.25	0.14	11.72	39.60
-16.50	-	-	-	-
-18.00	-	-	-	-



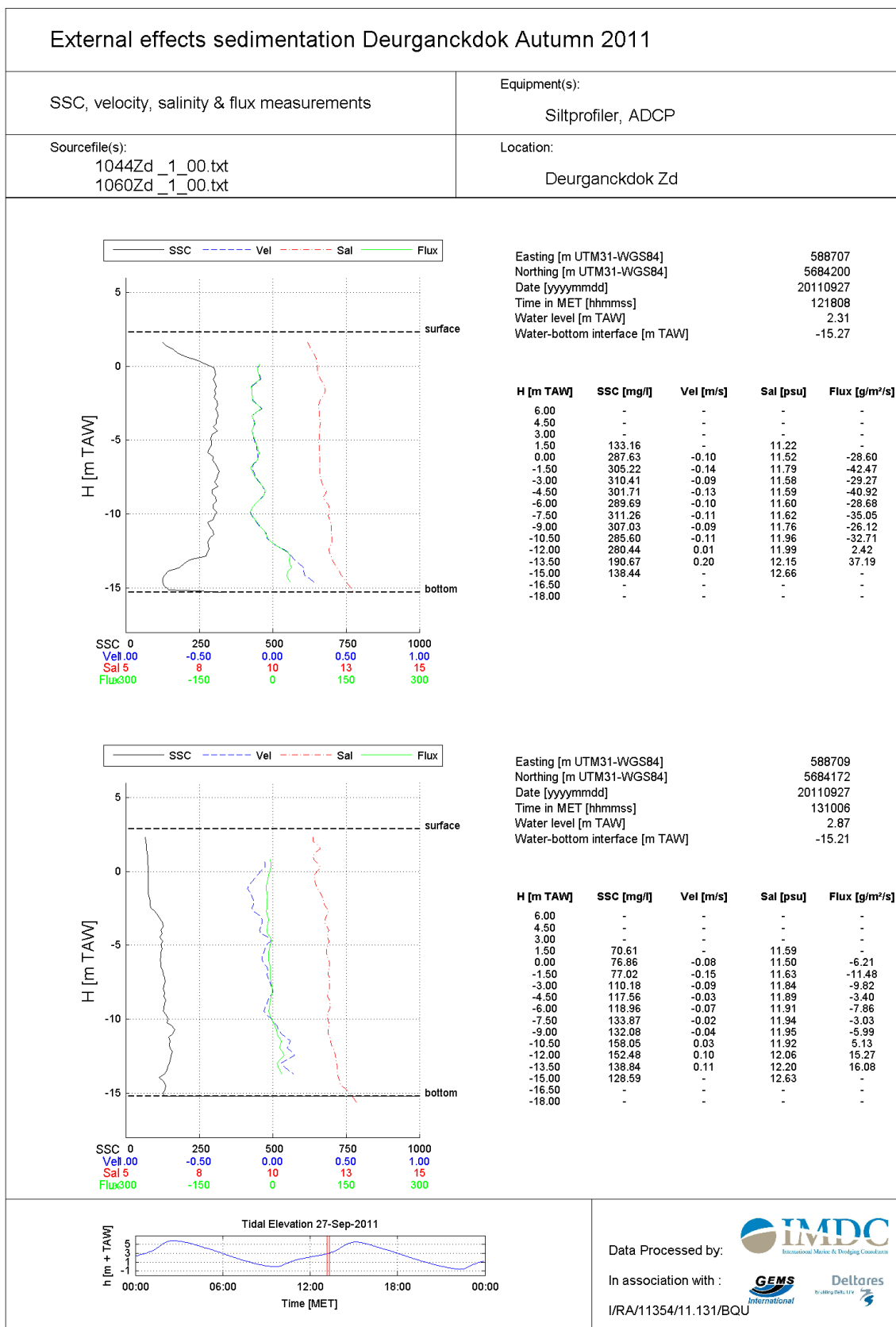
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

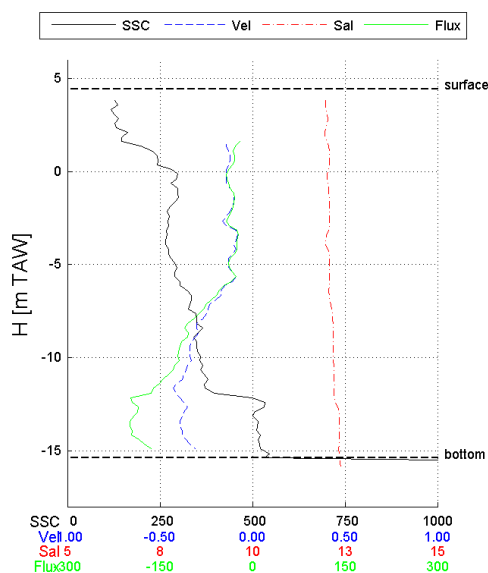
Siltprofiler, ADCP

Sourcefile(s):

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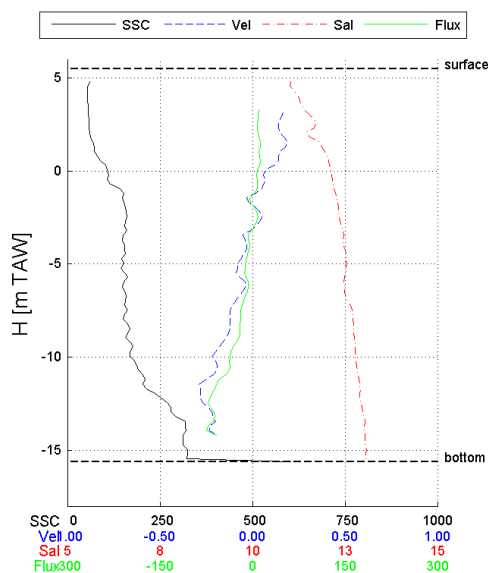
Location:

Deurganckdok Zd



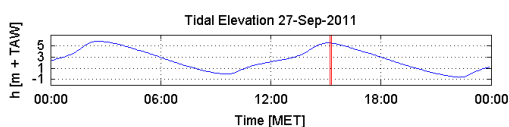
Easting [m UTM31-WGS84] 588729
Northing [m UTM31-WGS84] 5684209
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 141239
Water level [m TAW] 4.45
Water-bottom interface [m TAW] -15.39

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	130.33	-	12.02	-
1.50	168.58	-0.14	12.03	-23.84
0.00	287.53	-0.14	12.04	-40.45
-1.50	296.09	-0.10	12.08	-29.45
-3.00	270.69	-0.12	12.08	-32.02
-4.50	275.53	-0.12	12.08	-31.58
-6.00	304.68	-0.13	12.07	-39.03
-7.50	334.45	-0.24	12.15	-82.02
-9.00	344.59	-0.32	12.18	-108.87
-10.50	362.66	-0.35	12.20	-127.05
-12.00	435.97	-0.40	12.22	-176.99
-13.50	514.18	-0.39	12.34	-198.73
-15.00	532.01	-	12.33	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588721
Northing [m UTM31-WGS84] 5684204
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 151708
Water level [m TAW] 5.51
Water-bottom interface [m TAW] -15.62

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	53.54	-	11.03	-
3.00	57.54	0.16	11.56	9.24
1.50	69.47	0.19	11.81	13.15
0.00	109.13	0.07	12.12	7.78
-1.50	148.79	-0.03	12.29	-4.29
-3.00	156.23	0.01	12.42	2.18
-4.50	154.07	-0.05	12.53	-7.98
-6.00	151.14	-0.04	12.47	-6.29
-7.50	161.78	-0.12	12.69	-19.36
-9.00	159.42	-0.14	12.76	-22.61
-10.50	188.88	-0.19	12.82	-36.59
-12.00	240.52	-0.28	12.89	-67.15
-13.50	317.88	-0.21	13.04	-65.61
-15.00	324.38	-	13.08	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

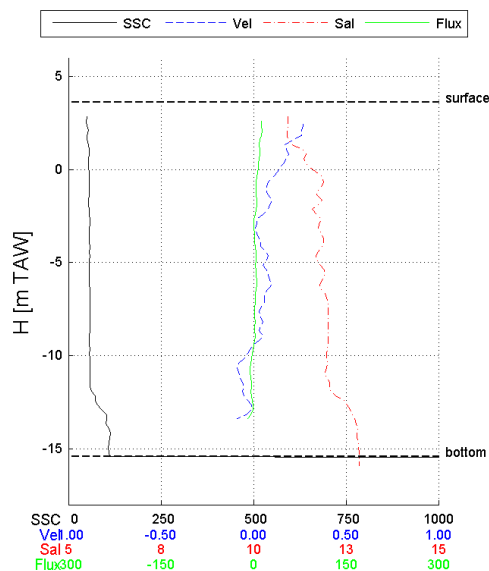
Siltprofiler, ADCP

Sourcefile(s):

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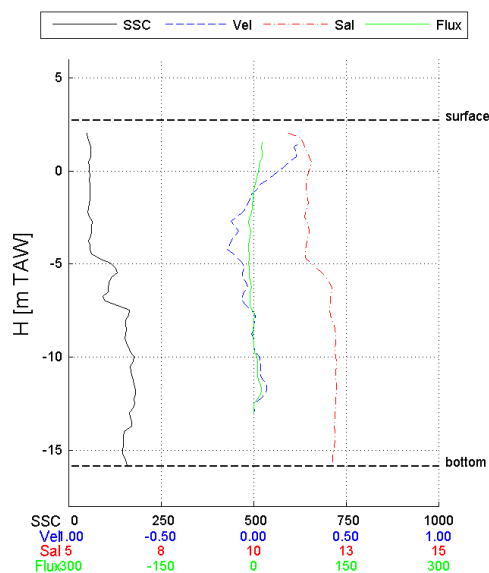
Location:

Deurganckdok Zd



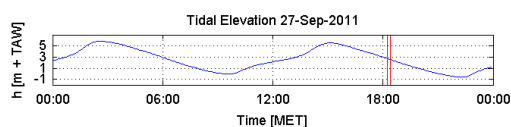
Easting [m UTM31-WGS84] 588717
Northing [m UTM31-WGS84] 5684195
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 172348
Water level [m TAW] 3.61
Water-bottom interface [m TAW] -15.41

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	51.25	0.20	10.98	10.27
0.00	54.97	0.14	11.60	7.41
-1.50	55.92	0.09	11.78	5.08
-3.00	57.36	0.02	11.77	0.90
-4.50	57.40	0.07	11.73	4.18
-6.00	56.77	0.09	11.84	5.38
-7.50	58.58	0.04	12.01	2.03
-9.00	56.97	0.04	12.01	2.38
-10.50	58.77	-0.08	11.98	-4.68
-12.00	66.78	-0.06	12.14	-3.68
-13.50	103.19	-	12.76	-
-15.00	108.58	-	12.84	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588731
Northing [m UTM31-WGS84] 5684184
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 181353
Water level [m TAW] 2.73
Water-bottom interface [m TAW] -15.85

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	57.36	0.25	11.35	14.02
0.00	57.28	0.14	11.50	7.74
-1.50	58.56	-0.02	11.47	-1.12
-3.00	61.68	-0.10	11.49	-5.92
-4.50	65.82	-0.11	11.39	-6.69
-6.00	109.69	-0.04	12.06	-3.92
-7.50	163.90	-0.01	12.05	-1.58
-9.00	153.25	0.00	12.23	-0.23
-10.50	167.26	0.04	12.24	6.85
-12.00	180.50	0.06	12.24	10.89
-13.50	171.68	-	12.19	-
-15.00	146.90	-	12.17	-
-16.50	-	-	-	-
-18.00	-	-	-	-



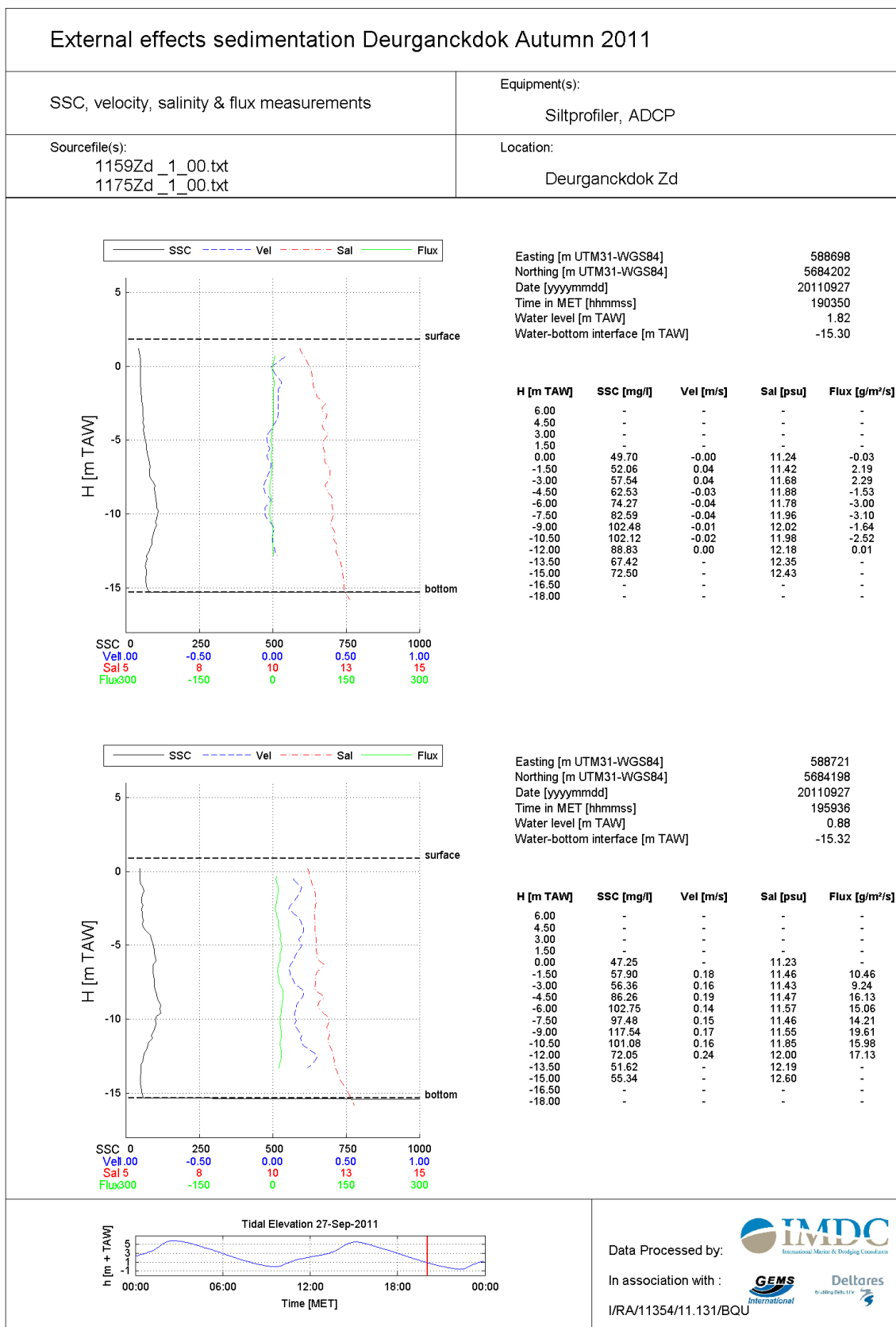
Data Processed by:



In association with:



I/RA/11354/11.131/BQU



D.16 Location Ze

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

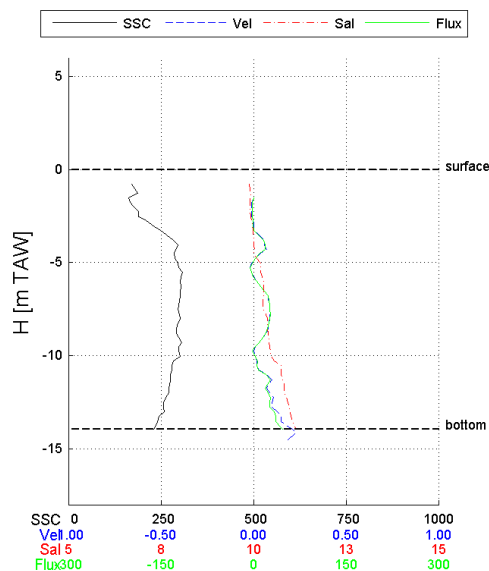
Siltprofiler, ADCP

Sourcefile(s):

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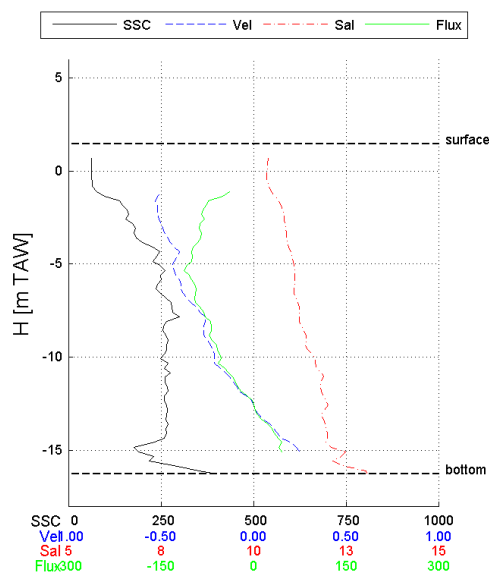
Location:

Deurganckdok Ze



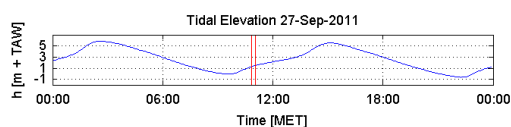
Easting [m UTM31-WGS84] 588755
Northing [m UTM31-WGS84] 5684275
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 094923
Water level [m TAW] -0.03
Water-bottom interface [m TAW] -13.94

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	-	-	-	-
-1.50	165.63	-	9.91	-
-3.00	226.88	0.00	9.96	-0.17
-4.50	285.79	0.04	10.02	11.34
-6.00	303.26	0.02	10.27	5.04
-7.50	295.62	0.09	10.28	26.85
-9.00	296.81	0.05	10.42	15.22
-10.50	279.01	0.02	10.73	5.95
-12.00	271.90	0.09	10.83	24.66
-13.50	240.27	0.15	11.05	36.42
-15.00	-	-	-	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588763
Northing [m UTM31-WGS84] 5684254
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 110229
Water level [m TAW] 1.45
Water-bottom interface [m TAW] -16.25

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m²/s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	62.20	-	10.36	-
-1.50	124.11	-0.53	10.66	-65.31
-3.00	179.08	-0.49	10.87	-87.75
-4.50	242.21	-0.41	11.03	-99.24
-6.00	244.52	-0.39	11.11	-97.02
-7.50	281.69	-0.30	11.23	-82.54
-9.00	266.94	-0.26	11.42	-68.65
-10.50	262.75	-0.19	11.70	-50.03
-12.00	262.18	-0.05	11.87	-13.66
-13.50	267.17	0.08	11.92	19.75
-15.00	185.56	0.24	12.37	44.96
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

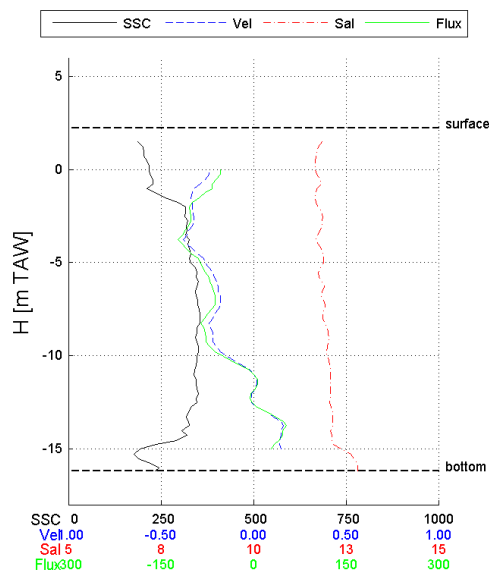
Siltprofiler, ADCP

Sourcefile(s):

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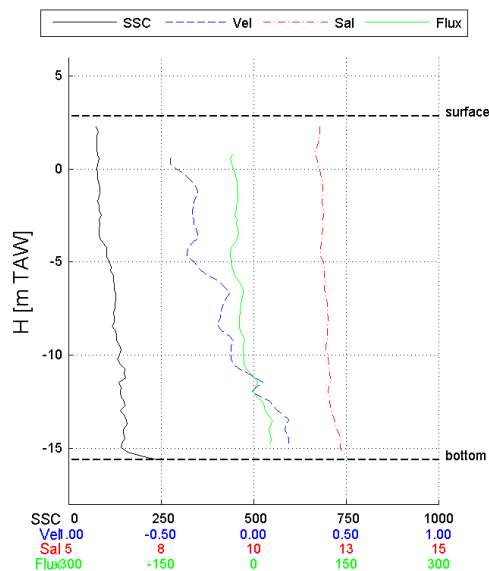
Location:

Deurganckdok Ze



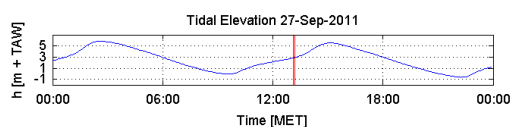
Easting [m UTM31-WGS84] 588769
Northing [m UTM31-WGS84] 5684246
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 121302
Water level [m TAW] 2.25
Water-bottom interface [m TAW] -16.17

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	218.41	-	11.68	-
-1.50	258.07	-0.34	11.68	-86.68
-3.00	319.47	-0.33	11.85	-105.36
-4.50	331.05	-0.30	11.87	-101.18
-6.00	351.85	-0.20	11.84	-71.15
-7.50	353.73	-0.19	11.92	-67.74
-9.00	343.53	-0.22	12.03	-77.02
-10.50	344.87	-0.06	12.06	-22.28
-12.00	350.11	-0.01	12.08	-3.31
-13.50	324.68	0.15	12.15	46.73
-15.00	194.33	0.15	12.36	29.31
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588751
Northing [m UTM31-WGS84] 5684261
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 130640
Water level [m TAW] 2.83
Water-bottom interface [m TAW] -15.63

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	76.87	-	11.77	-
0.00	77.43	-0.41	11.79	-31.93
-1.50	81.86	-0.31	11.87	-25.22
-3.00	85.05	-0.32	11.88	-26.95
-4.50	103.58	-0.36	11.81	-37.89
-6.00	122.96	-0.20	11.93	-24.37
-7.50	125.64	-0.17	11.99	-21.15
-9.00	129.39	-0.13	12.00	-16.25
-10.50	142.17	-0.11	12.03	-15.45
-12.00	139.82	-0.00	12.02	-0.24
-13.50	156.78	0.19	12.19	29.55
-15.00	146.00	-	12.36	-
-16.50	-	-	-	-
-18.00	-	-	-	-



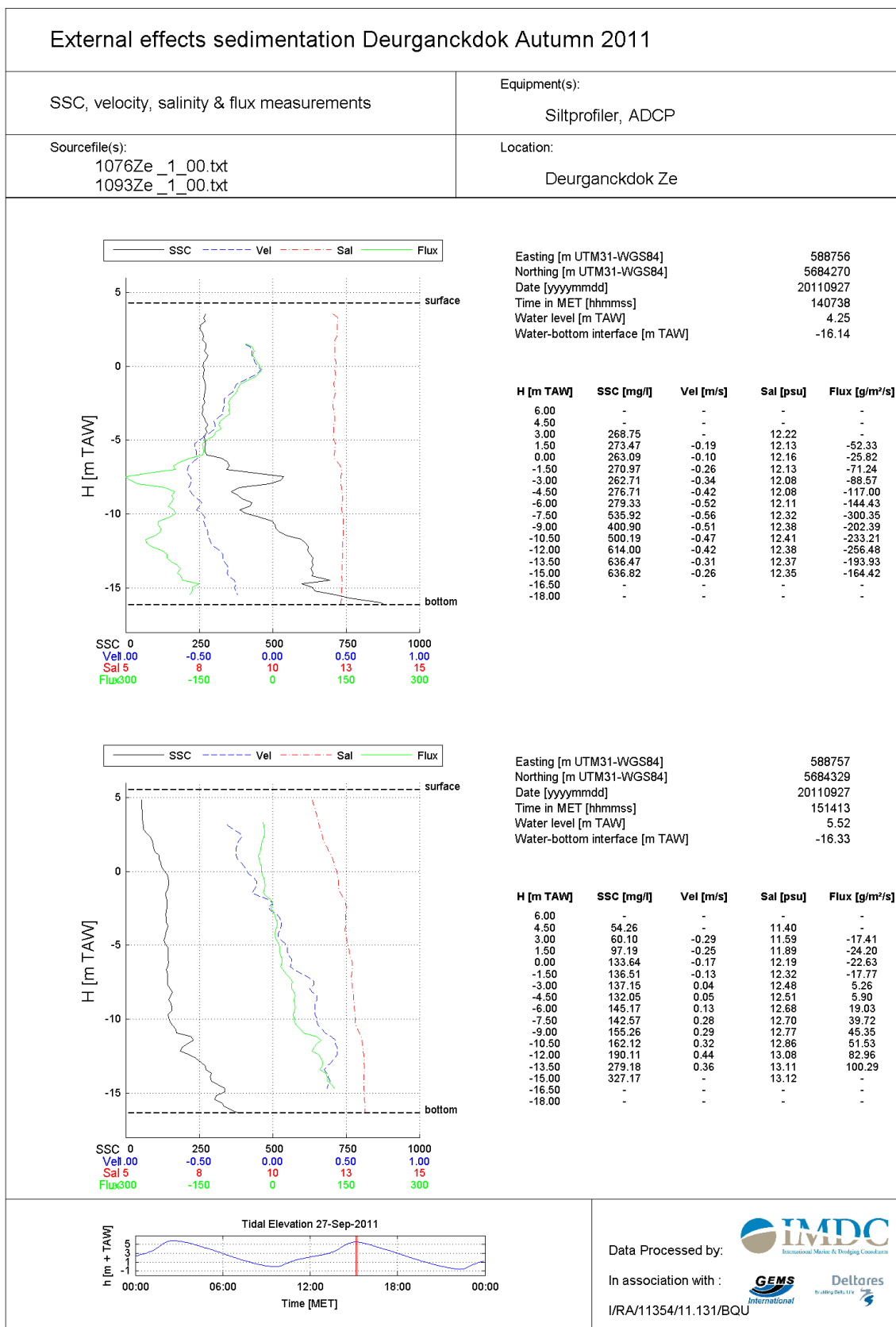
Data Processed by:



In association with:



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External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

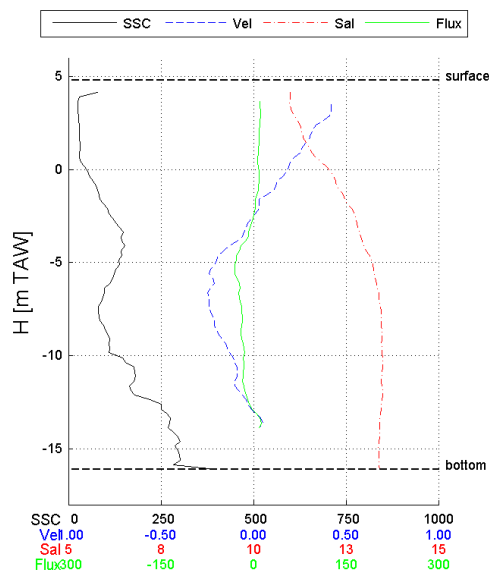
Siltprofiler, ADCP

Sourcefile(s):

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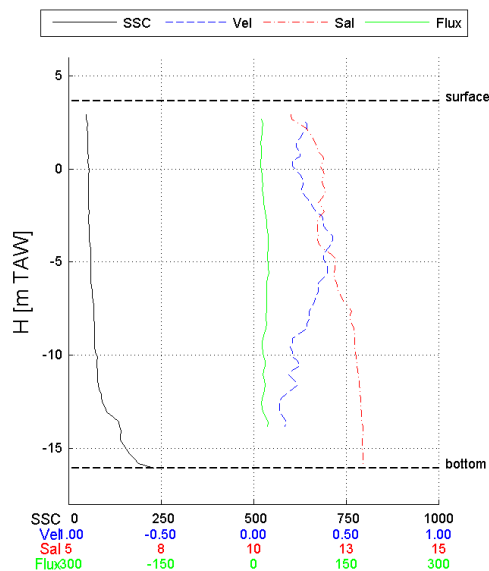
Location:

Deurganckdok Ze



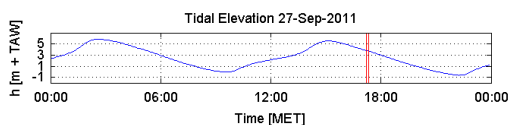
Easting [m UTM31-WGS84] 588762
Northing [m UTM31-WGS84] 5684266
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 161144
Water level [m TAW] 4.80
Water-bottom interface [m TAW] -16.12

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	26.71	0.41	11.08	11.14
1.50	30.76	0.29	11.41	8.83
0.00	49.94	0.18	12.04	9.26
-1.50	83.93	0.05	12.45	4.16
-3.00	133.21	-0.04	12.81	-4.92
-4.50	144.10	-0.18	13.10	-25.40
-6.00	114.70	-0.21	13.31	-24.49
-7.50	80.76	-0.23	13.44	-18.93
-9.00	109.59	-0.18	13.48	-19.76
-10.50	168.15	-0.09	13.49	-15.33
-12.00	174.84	-0.07	13.49	-12.43
-13.50	275.01	0.05	13.42	12.03
-15.00	293.20	-	13.39	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588749
Northing [m UTM31-WGS84] 5684275
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 172053
Water level [m TAW] 3.65
Water-bottom interface [m TAW] -16.07

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	52.37	0.24	11.65	12.31
0.00	55.10	0.22	11.86	12.50
-1.50	55.24	0.28	11.88	15.85
-3.00	55.42	0.38	11.73	21.13
-4.50	60.57	0.38	12.05	23.41
-6.00	60.73	0.36	12.22	22.32
-7.50	69.34	0.31	12.61	21.46
-9.00	71.67	0.22	12.74	16.09
-10.50	76.83	0.25	12.80	19.00
-12.00	87.72	0.19	12.88	16.49
-13.50	131.79	0.17	12.92	22.78
-15.00	154.60	-	12.95	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

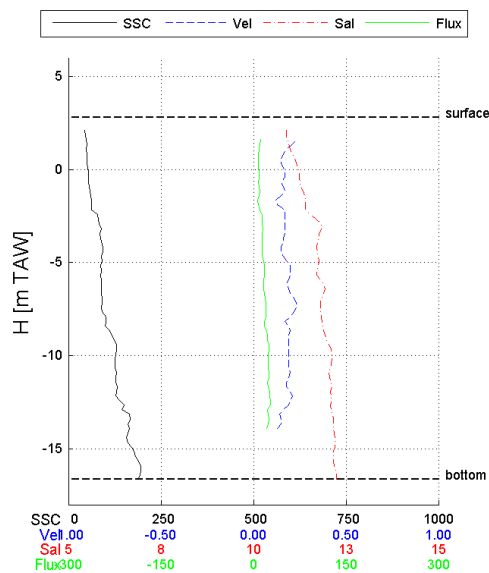
Siltprofiler, ADCP

Sourcefile(s):

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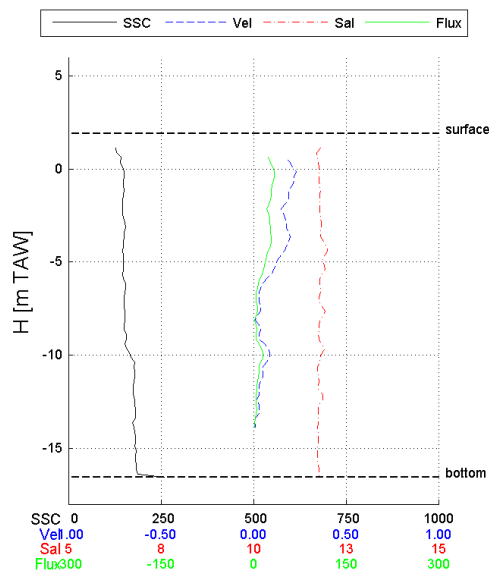
Location:

Deurganckdok Ze



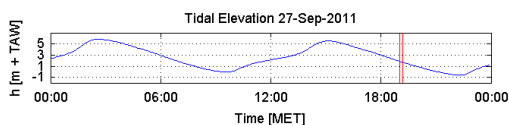
Easting [m UTM31-WGS84] 588750
Northing [m UTM31-WGS84] 5684266
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 181113
Water level [m TAW] 2.79
Water-bottom interface [m TAW] -16.63

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	48.28	0.23	10.93	10.94
0.00	53.07	0.16	11.21	8.60
-1.50	60.36	0.14	11.40	8.20
-3.00	85.45	0.17	11.84	14.53
-4.50	91.34	0.15	11.74	14.25
-6.00	89.49	0.19	11.84	16.86
-7.50	90.82	0.23	11.82	20.43
-9.00	119.82	0.19	11.95	22.72
-10.50	125.67	0.19	12.09	23.82
-12.00	129.27	0.20	12.10	26.51
-13.50	164.65	0.15	12.17	24.43
-15.00	172.76	-	12.19	-
-16.50	191.48	-	12.24	-
-18.00	-	-	-	-



Easting [m UTM31-WGS84] 588732
Northing [m UTM31-WGS84] 5684297
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 190021
Water level [m TAW] 1.89
Water-bottom interface [m TAW] -16.55

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	148.24	0.22	11.77	32.56
-1.50	148.05	0.19	11.80	28.27
-3.00	153.52	0.18	11.84	27.19
-4.50	147.51	0.16	11.97	23.03
-6.00	151.54	0.06	11.80	9.60
-7.50	151.59	0.04	11.89	6.35
-9.00	156.31	0.03	11.77	4.72
-10.50	179.02	0.06	11.76	10.35
-12.00	174.87	0.03	11.81	5.02
-13.50	177.25	0.01	11.75	2.30
-15.00	181.27	-	11.74	-
-16.50	238.31	-	11.78	-
-18.00	-	-	-	-



Data Processed by:



In association with:



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External effects sedimentation Deurganckdok Autumn 2011

SSC, velocity, salinity & flux measurements

Equipment(s):

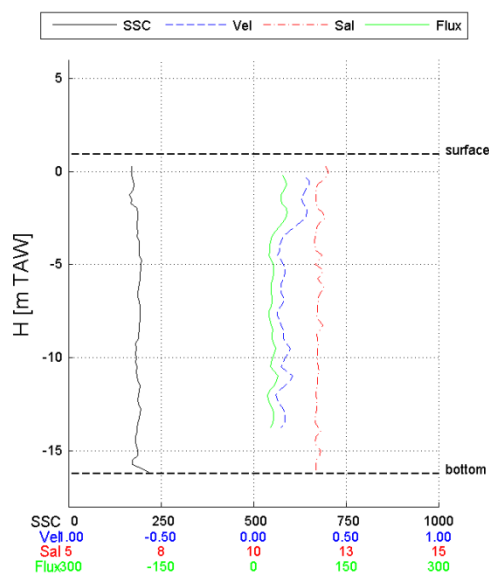
Siltprofler, ADCP

Sourcefile(s):

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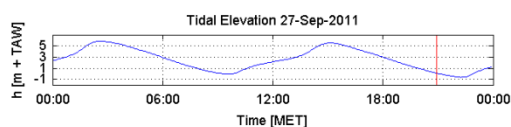
Location:

Deurganckdok Ze



Easting [m UTM31-WGS84] 588741
Northing [m UTM31-WGS84] 5684299
Date [yyyymmdd] 20110927
Time in MET [hhmmss] 195635
Water level [m TAW] 0.92
Water-bottom interface [m TAW] -16.21

H [m TAW]	SSC [mg/l]	Vel [m/s]	Sal [psu]	Flux [g/m ² /s]
6.00	-	-	-	-
4.50	-	-	-	-
3.00	-	-	-	-
1.50	-	-	-	-
0.00	171.47	-	12.01	-
-1.50	171.16	0.26	11.69	44.74
-3.00	185.42	0.22	11.71	40.19
-4.50	191.09	0.13	11.84	25.92
-6.00	190.85	0.15	11.83	29.02
-7.50	193.43	0.13	11.73	24.92
-9.00	188.71	0.16	11.73	30.23
-10.50	184.90	0.15	11.75	28.41
-12.00	188.82	0.12	11.69	22.42
-13.50	187.17	0.17	11.67	31.33
-15.00	188.30	-	11.81	-
-16.50	-	-	-	-
-18.00	-	-	-	-



Data Processed by:



In association with:



I/RA/11354/11.131/BQU

Annex E Depth Averages of the Siltprofiles

E.1 Tables

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1005Xa	6:32	9:12				18.3	11.7	139			
1021Xa	-04:29	10:40	18.1	11.2	141	18.1	10.4	138	18.1	12.3	145
1037Xa	-03:14	11:55	18.1	11.4	141	18.1	11.1	157	18.2	11.8	114
1053Xa	-02:25	12:44	18.1	11.7	104	18.1	11.4	84	18.1	12.1	135
1070Xa	-01:22	13:47	18.3	11.7	80	18.4	11.5	62	18.2	12.0	111
1087Xa	0:18	14:51	18.4	12.2	226	18.5	12.1	137	18.3	12.4	401
1104Xa	0:42	15:52	18.3	12.2	113	18.4	12.0	73	18.3	12.7	190
1121Xa	1:44	16:54	18.3	12.7	73	18.4	12.3	60	18.2	13.3	96
1136Xa	2:41	17:51	18.3	12.3	100	18.3	12.2	83	18.3	12.6	126
1137Xa	2:43	17:53	18.3	12.1	86	18.3	11.8	66	18.3	12.6	116
1153Xa	3:30	18:40	18.1	11.9	98	18.0	11.6	63	18.2	12.3	149
1168Xa	4:22	19:32	18.3	11.9	70	18.2	11.7	70	18.3	12.1	71
AVERAGE			18.2	11.9	113	18.3	11.6	95	18.2	12.4	153
1004Xb	5:51	8:31	18.0	9.3	181	18.0	9.3	181	-	-	-
1020Xb	-04:34	10:35	17.9	11.0	200	17.8	9.9	149	18.1	12.1	259
1052Xb	-02:28	12:41	18.5	11.7	143	18.6	11.6	133	18.5	11.9	160

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1069Xb	-01:25	13:44	18.6	11.5	83	18.6	11.2	79	18.4	12.1	90
1086Xb	0:22	14:47	18.3	11.1	181	18.3	11.0	104	18.4	11.4	315
1103Xb	0:38	15:48	18.4	12.2	116	18.4	12.0	78	18.3	12.5	184
1120xb	1:40	16:50	18.6	12.5	75	18.8	12.1	61	18.3	13.2	99
1152Xb	3:27	18:37	18.1	11.9	124	18.0	11.7	103	18.3	12.2	154
1167Xb	4:19	19:29	18.2	11.8	74	18.2	11.6	67	18.3	12.0	83
AVERAGE			18.3	11.8	122	18.3	11.3	104	18.3	12.2	163
1003Xc	5:47	8:27	18.0	8.6	209	18.0	8.6	209	18.1	8.6	209
1019Xc	-04:38	10:31	17.8	10.8	265	17.6	10.0	153	18.0	11.8	403
1051Xc	-02:31	12:38	18.5	11.9	138	18.6	11.7	136	18.4	12.2	141
1068Xc	-01:27	13:42	18.7	11.7	88	18.7	11.7	87	18.7	11.9	97
1085Xc	0:27	14:42	18.5	12.0	204	18.5	12.0	127	18.4	12.1	367
1102Xc	0:35	15:45	18.3	12.3	169	18.4	12.0	112	18.2	12.7	274
1119Xc	1:33	16:43	18.2	13.0	88	18.3	12.7	75	18.1	13.5	115
1135Xc	2:38	17:48	18.3	12.3	117	18.3	12.1	92	18.3	12.6	154
1151Xc	3:25	18:35	18.1	12.0	125	18.0	11.9	118	18.3	12.2	140
1166Xc	4:17	19:27	18.3	11.8	88	18.2	11.7	82	18.4	12.0	97
AVERAGE			18.3	11.6	149	18.3	11.5	119	18.3	12.0	200

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1002Xd	5:37	8:17	18.1	11.3	245	18.1	11.3	237	18.2	11.3	274
1018Xd	-04:41	10:28	17.5	10.4	217	17.5	10.3	196	18.0	11.1	536
1050Xd	-02:34	12:35	18.8	11.9	128	18.8	11.9	117	18.8	11.9	176
1067Xd	-01:30	13:39	18.7	-	98	18.7	-	98	18.8	-	108
1084Xd	0:31	14:38	18.3	12.4	166	18.3	12.1	131	18.3	12.7	216
1101Xd	0:31	15:41	18.3	12.4	156	18.4	12.2	101	18.3	12.7	249
1118Xd	1:29	16:39	18.3	12.9	97	18.4	12.5	74	18.2	13.5	128
1134Xd	2:36	17:46	18.3	12.6	115	18.3	12.4	98	18.2	12.8	137
1150Xd	3:22	18:32	18.0	12.1	137	17.9	12.1	117	18.2	12.3	164
1165Xd	4:14	19:24	18.3	11.7	106	18.2	11.6	92	18.4	11.9	120
AVERAGE			18.3	11.8	155	18.3	11.7	142	18.3	12.2	204
1001Xe	5:27	8:07	18.2	11.3	213	18.2	11.3	198	18.3	11.3	242
1017Xe	-04:47	10:22	17.6	10.2	191	17.3	10.2	161	18.0	10.3	229
1049Xe	-02:38	12:31	18.8	11.9	137	18.8	11.9	135	18.8	11.8	139
1066Xe	-01:33	13:36				20.3	11.3	93			
1082Xe	0:39	14:30	18.2	12.8	260	18.2	12.8	264	18.2	12.7	251
1099Xe	0:20	15:30	18.5	12.6	178	18.6	12.3	134	18.3	13.0	248

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1117Xe	1:25	16:35	19.2	12.8	129	19.8	12.3	117	18.4	13.4	145
1133Xe	2:31	17:41	18.3	12.5	79	18.3	12.3	71	18.3	12.7	89
1149Xe	3:18	18:28	17.9	12.0	135	17.7	11.9	107	18.1	12.1	180
1164Xe	4:11	19:21	18.4	11.8	161	18.4	11.7	163	18.4	11.8	160
AVERAGE			18.4	12.0	164	18.6	11.8	144	18.3	12.2	195
1006Ya	6:39	9:19	17.6	8.5	173	17.3	8.5	204	17.9	8.5	145
1022Ya	-04:24	10:45	17.9	11.4	119	17.8	10.5	124	18.1	12.4	112
1038Ya	-03:11	11:58	18.1	11.7	155	18.1	11.2	149	18.2	12.3	164
1054Ya	-02:21	12:48	18.3	11.9	146	18.4	11.4	136	18.2	12.4	158
1071Ya	-01:18	13:51	18.5	11.8	79	18.6	11.6	64	18.5	12.1	100
1088Ya	0:12	14:57	18.4	12.2	157	18.5	12.1	95	18.3	12.5	264
1105Ya	0:45	15:55	18.3	12.5	157	18.4	12.2	92	18.2	13.0	265
1122Ya	1:48	16:58	18.3	12.2	83	18.3	11.6	58	18.2	12.9	118
1138Ya	2:46	17:56	18.2	12.0	105	18.1	11.6	71	18.3	12.5	150
1153Ya	3:34	18:44	18.1	11.8	74	18.0	11.4	52	18.2	12.2	101
1169Ya	4:27	19:37	18.1	11.0	49	17.9	10.9	46	18.2	11.2	52
AVERAGE			18.2	11.5	118	18.1	11.2	99	18.2	12.0	148

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1007Yb	6:45	9:25	17.9	11.2	220	17.7	11.0	205	18.1	11.3	234
1023Yb	-04:21	10:49	18.1	11.5	157	18.2	10.5	154	18.1	12.3	160
1039Yb	-03:08	12:01	18.1	11.8	168	18.0	11.5	180	18.1	12.3	154
1055Yb	-02:18	12:51	18.6	11.8	125	18.7	11.5	113	18.4	12.2	141
1072Yb	-01:15	13:54	18.6	11.9	90	18.6	11.8	81	18.5	12.2	103
1089Yb	0:08	15:01	18.4	12.1	155	18.4	11.8	108	18.3	12.5	235
1106Yb	0:49	15:59	18.4	12.2	122	18.5	11.7	72	18.2	13.1	205
1123Yb	1:54	17:04	18.5	12.1	66	18.6	11.7	59	18.3	12.6	75
1139Yb	2:50	18:00	18.3	12.0	94	18.3	11.8	77	18.3	12.4	116
1154Yb	3:37	18:47	18.2	11.6	89	18.1	11.1	57	18.3	12.2	127
1170Yb	4:30	19:40	18.1	11.8	54	18.0	11.6	49	18.2	11.9	59
AVERAGE			18.3	11.8	168	18.3	11.5	105	18.3	12.3	265
1024Yc	-04:18	10:51	18.2	11.3	182	18.2	10.4	161	18.1	12.2	200
1040Yc	-03:06	12:03	18.3	11.7	297	18.3	11.3	306	18.3	12.3	286
1056Yc	-02:16	12:53	18.6	11.9	129	18.7	11.6	118	18.4	12.2	144
1073Yc	-01:12	13:57	18.6	11.9	87	18.7	11.9	79	18.5	12.0	98
1090Yc	0:04	15:05	18.5	12.1	145	18.6	12.0	108	18.4	12.4	207
1107Yc	0:52	16:02	18.4	12.6	125	18.4	12.2	90	18.2	13.2	183

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1124Yc	1:58	17:08	18.3	12.5	124	18.3	12.2	59	18.3	12.9	218
1140Yc	2:53	18:03	18.3	12.0	92	18.3	11.7	67	18.3	12.4	127
1155Yc	3:40	18:50	18.2	11.5	84	18.1	11.2	61	18.3	11.9	112
1171Yc	4:34	19:44	18.1	10.2	65	17.9	9.6	63	18.3	10.9	68
AVERAGE			18.3	11.8	133	18.3	11.4	111	18.3	12.2	164
1009Yd	-05:33	9:36	18.0	10.4	265	18.0	10.4	266	18.1	10.6	260
1025Yd	-04:15	10:54	18.1	11.3	211	18.1	10.7	165	18.1	12.0	255
1041Yd	-03:03	12:06	18.3	11.8	321	18.3	11.6	306	18.4	12.0	338
1057Yd	-02:12	12:57	18.4	12.0	133	18.5	11.8	109	18.4	12.2	162
1074Yd	-01:09	14:00	18.6	11.9	99	18.6	11.9	94	18.5	12.0	106
1108Yd	0:55	16:05	18.3	12.5	138	18.4	12.0	103	18.2	13.2	189
1125Yd	2:02	17:12	18.4	9.9	79	18.4	9.4	55	18.3	10.5	109
1141Yd	2:55	18:05	18.2	11.7	95	18.2	11.5	81	18.3	12.0	111
1156Yd	3:44	18:54	18.2	11.7	93	18.0	11.4	65	18.3	12.0	123
1172Yd	4:37	19:47	18.3	11.5	147	18.2	11.2	173	18.4	11.9	120
AVERAGE			18.3	11.6	159	18.3	11.3	137	18.3	11.9	184
1010Ye	-05:26	9:43	18.0	10.4	240	17.9	10.3	217	18.1	10.6	308

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1026Ye	-04:11	10:58	18.0	11.5	241	17.9	11.0	230	18.1	11.9	250
1042Ye	-02:59	12:10	18.5	11.8	348	18.6	11.7	292	18.5	11.9	404
1058Ye	-02:06	13:03	18.9	12.0	112	19.0	11.9	95	18.7	12.1	130
1075Ye	-01:05	14:04	18.4	12.1	298	18.5	12.0	244	18.4	12.2	365
1092Ye	0:01	15:11	18.4	12.5	165	18.5	12.2	132	18.3	12.9	209
1109Ye	0:58	16:08	18.4	12.7	112	18.5	12.2	95	18.2	13.3	133
1126Ye	2:07	17:17	18.3	12.3	84	18.3	11.8	55	18.3	12.7	118
1142Ye	2:58	18:08	18.2	12.0	115	18.1	11.9	90	18.3	12.0	141
1157Ye	3:47	18:57	18.2	11.8	92	18.1	11.5	71	18.3	12.0	114
1173Ye	4:41	19:51	18.3	11.6	224	18.1	11.6	235	18.4	11.7	214
AVERAGE			18.3	11.9	184	18.3	11.6	160	18.3	12.1	217
1015Za	-04:57	10:12	17.8	11.6	177	17.6	11.1	160	18.0	12.2	194
1031Za	-03:50	11:19	18.0	11.6	150	17.9	10.8	143	18.0	12.4	158
1047Za	-02:43	12:26	18.2	11.9	131	18.3	11.3	153	18.1	12.5	104
1063Za	-01:51	13:18	18.6	12.0	110	18.7	11.8	101	18.5	12.2	121
1080Za	0:46	14:23	18.7	11.9	82	18.7	11.8	77	18.6	12.1	89
1097Za	0:15	15:25	18.6	12.2	136	18.8	11.7	79	18.3	12.8	222
1114Za	1:14	16:24	18.4	12.2	89	18.5	11.5	56	18.2	13.3	137

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1131Za	2:26	17:36	18.3	12.0	59	18.3	11.7	52	18.3	12.4	68
1147Za	3:13	18:23	18.2	12.0	57	18.1	11.6	51	18.3	12.4	63
1162Za	4:04	19:14	18.2	11.8	52	18.1	11.5	50	18.2	12.2	54
1178Za	4:58	20:08	18.2	12.0	49	18.1	11.6	50	18.2	12.3	48
AVERAGE			18.3	11.9	99	18.3	11.5	88	18.3	12.4	114
1014Zb	-05:03	10:06	18.2	10.4	155	18.2	10.4	153	18.2	10.6	185
1030Zb	-03:55	11:14	18.0	9.1	157	17.9	8.8	153	18.1	9.5	161
1046Zb	-02:46	12:23	18.4	11.7	126	18.5	11.2	125	18.2	12.4	127
1062Zb	-01:54	13:15	18.7	12.0	116	18.8	11.8	102	18.6	12.2	136
1079Zb	0:48	14:21	18.7	12.0	87	18.7	11.9	86	18.6	12.1	88
1096Zb	0:12	15:22	18.5	12.3	139	18.6	12.0	100	18.3	12.9	204
1113Zb	1:10	16:20	18.3	12.4	93	18.4	11.8	63	18.2	13.3	139
1130Zb	2:22	17:32	18.3	9.2	86	18.3	9.2	58	18.3	9.3	125
1146Zb	3:11	18:21	18.1	10.7	62	17.9	10.5	55	18.2	11.0	72
1161Zb	4:00	19:10	18.2	11.9	54	18.2	11.5	51	18.3	12.3	57
1177Zb	4:56	20:06	18.1	11.9	48	17.9	11.6	47	18.2	12.1	49
AVERAGE			18.3	11.2	102	18.3	11.0	90	18.3	11.6	122

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1013Zc	-05:12	9:57	18.1	10.6	206	18.1	10.5	208	18.2	10.9	194
1029Zc	-03:59	11:10	18.0	11.4	159	18.0	10.6	153	18.1	12.2	165
1045Zc	-02:48	12:21	18.3	11.7	147	18.3	11.2	130	18.3	12.2	168
1061Zc	-01:57	13:12	18.7	11.9	120	18.8	11.7	99	18.5	12.2	148
1078Zc	0:53	14:16	18.5	12.0	100	18.5	12.0	103	18.5	12.1	95
1095Zc	0:10	15:20	18.5	12.4	141	18.6	12.1	117	18.3	12.8	183
1111Zc	1:04	16:14	18.3	12.7	112	18.4	12.2	83	18.1	13.4	158
1112Zc	1:07	16:17	18.3	12.5	97	18.4	11.9	70	18.2	13.4	142
1129Zc	2:17	17:27	18.3	12.0	79	18.3	11.8	59	18.3	12.4	111
1145Zc	3:06	18:16	18.2	12.0	72	18.1	11.8	60	18.3	12.4	89
1160Zc	3:56	19:06	18.2	11.8	56	18.2	11.5	51	18.3	12.2	62
1176Zc	4:53	20:03	18.3	11.8	49	18.4	11.5	47	18.3	12.0	51
AVERAGE			18.3	11.8	112	18.3	11.5	100	18.3	12.3	128
1012Zd	-05:16	9:53	18.0	10.4	173	18.0	10.4	173	-	-	-
1028Zd	-04:02	11:07	18.2	11.3	250	18.2	11.1	216	18.2	11.6	286
1044Zd	-02:51	12:18	18.5	11.8	271	18.6	11.6	286	18.4	12.0	255
1060Zd	-01:59	13:10	18.7	11.9	117	18.8	11.7	100	18.6	12.1	141
1077Zd	0:57	14:12	18.4	12.1	324	18.5	12.1	254	18.3	12.2	426

Siltprofiles Name	Time after HW [hh:mm]	Time [hh:mm MET]	Depth Avg			Above -7.6m Depth Avg			Below -7.6m Depth Avg		
			Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]	Temp [°C]	Sal [ppt]	SS Conc [mg/l]
1094Zd	0:07	15:17	18.5	12.4	164	18.6	12.1	118	18.4	12.9	235
1128Zd	2:13	17:23	18.3	11.9	64	18.3	11.6	56	18.3	12.3	75
1144Zd	3:03	18:13	18.3	11.9	116	18.2	11.6	76	18.3	12.2	164
1159Zd	3:53	19:03	18.2	11.9	74	18.2	11.6	61	18.3	12.1	89
1175Zd	4:49	19:59	18.2	11.7	77	18.1	11.5	74	18.3	12.0	81
AVERAGE			18.4	12.0	157	18.3	11.6	136	18.3	12.3	191
1011Ze	-05:20	9:49	18.2	10.4	268	18.1	10.1	258	18.2	10.7	278
1027Ze	-04:07	11:02	18.2	11.4	222	18.2	10.9	182	18.2	11.8	260
1043Ze	-02:56	12:13	18.5	12.0	305	18.5	11.8	295	18.4	12.1	317
1059Ze	-02:03	13:06	18.8	12.0	117	18.9	11.9	95	18.6	12.1	144
1076Ze	-01:02	14:07	18.3	12.2	405	18.3	12.1	285	18.3	12.4	560
1093Ze	0:04	15:14	18.5	12.5	164	18.6	12.2	119	18.3	13.0	227
1110Ze	1:01	16:11	18.3	12.8	131	18.4	12.4	82	18.1	13.4	197
1127Ze	2:10	17:20	18.3	12.3	77	18.3	11.9	57	18.3	12.8	102
1143Ze	3:01	18:11	18.3	11.8	107	18.3	11.5	73	18.3	12.1	143
1158Ze	3:50	19:00	18.4	11.8	161	18.4	11.8	148	18.5	11.8	172
1174Ze	4:46	19:56	18.2	11.8	187	18.1	11.8	186	18.4	11.7	187
AVERAGE			18.3	11.9	195	18.4	11.7	162	18.3	12.2	235

E.2 Figures

External effects on siltation in Deurganckdok

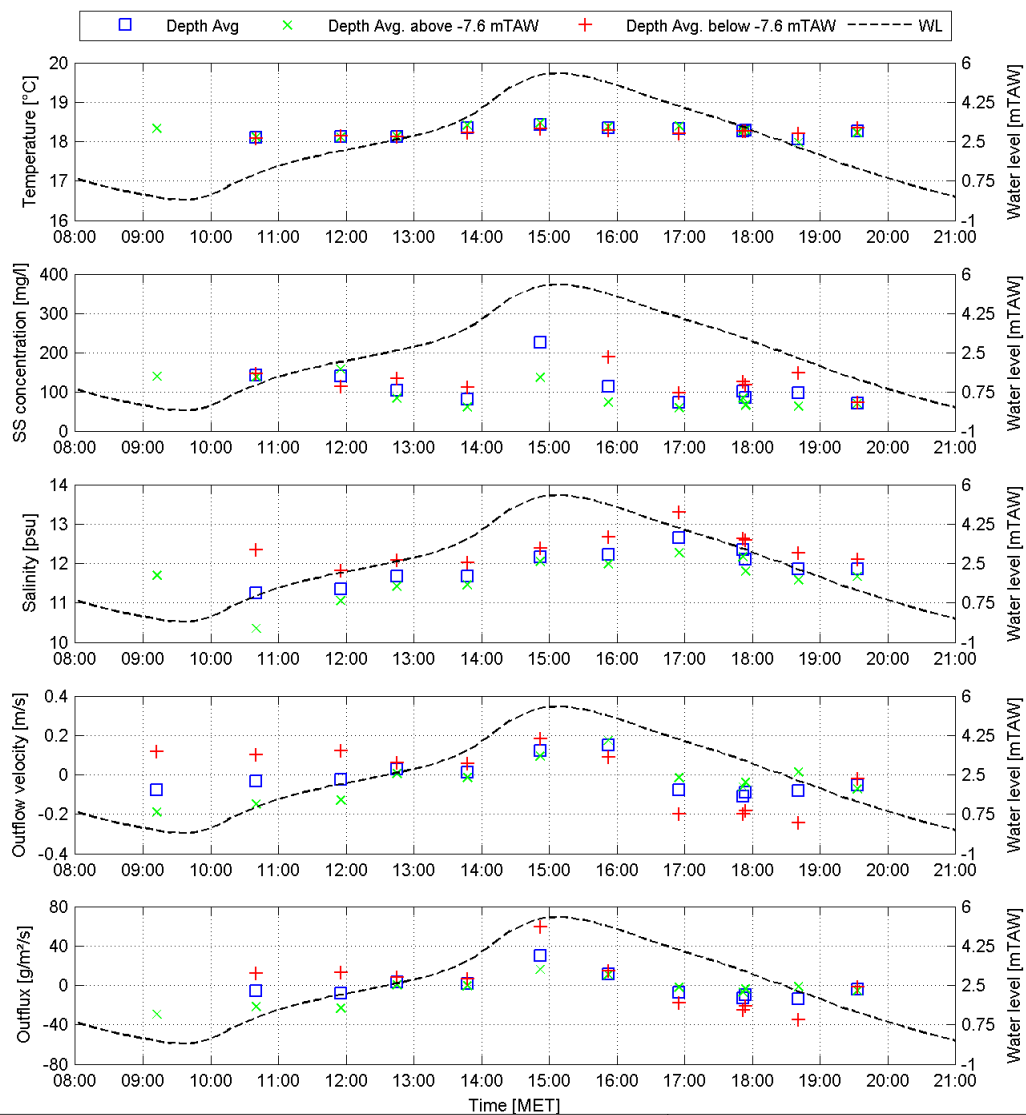
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Xa



Date :

27-Sep-2011

Data Processed by:



In association with:



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

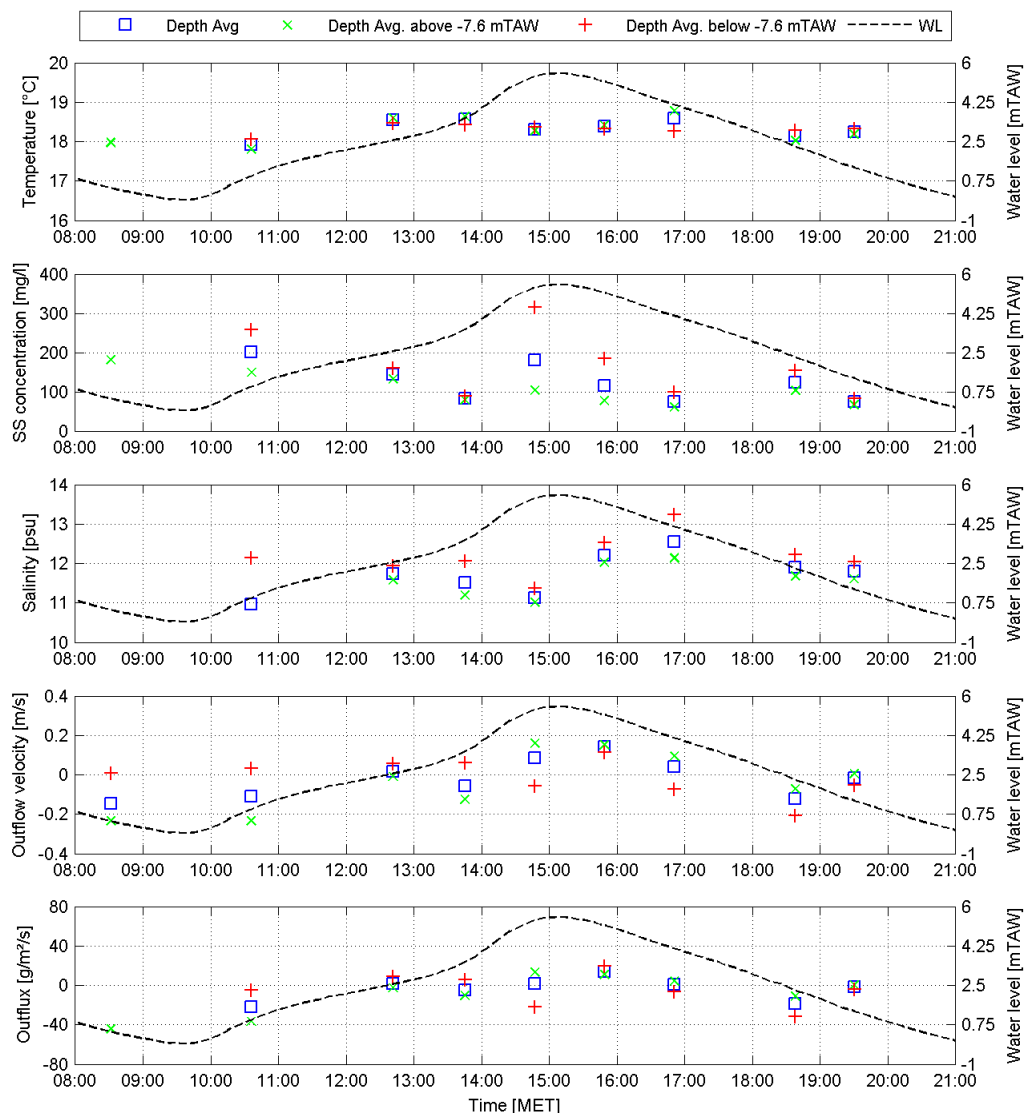
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Xb



Date :

27-Sep-2011

Data Processed by:



In association with :



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

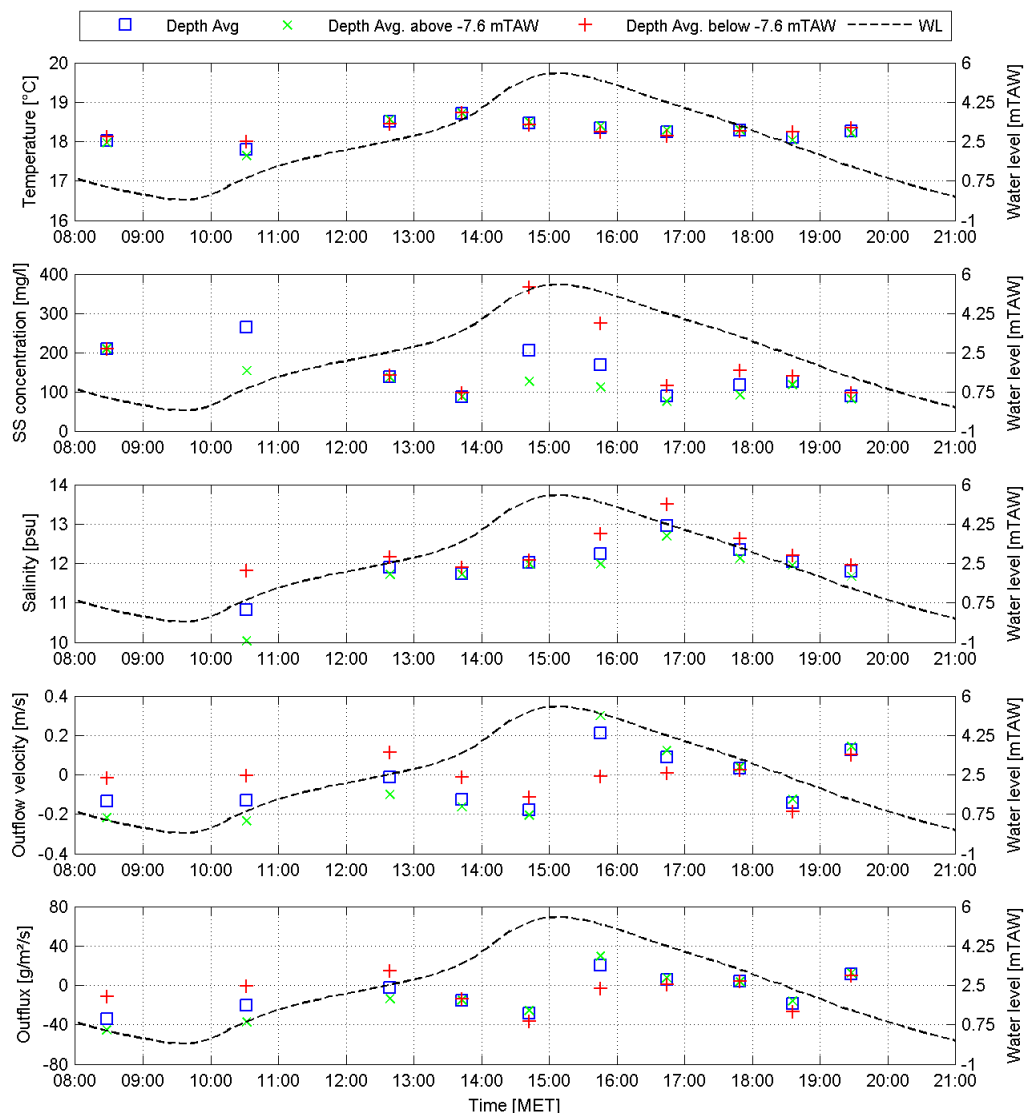
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Xc



Date :

27-Sep-2011

Data Processed by:



In association with :



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

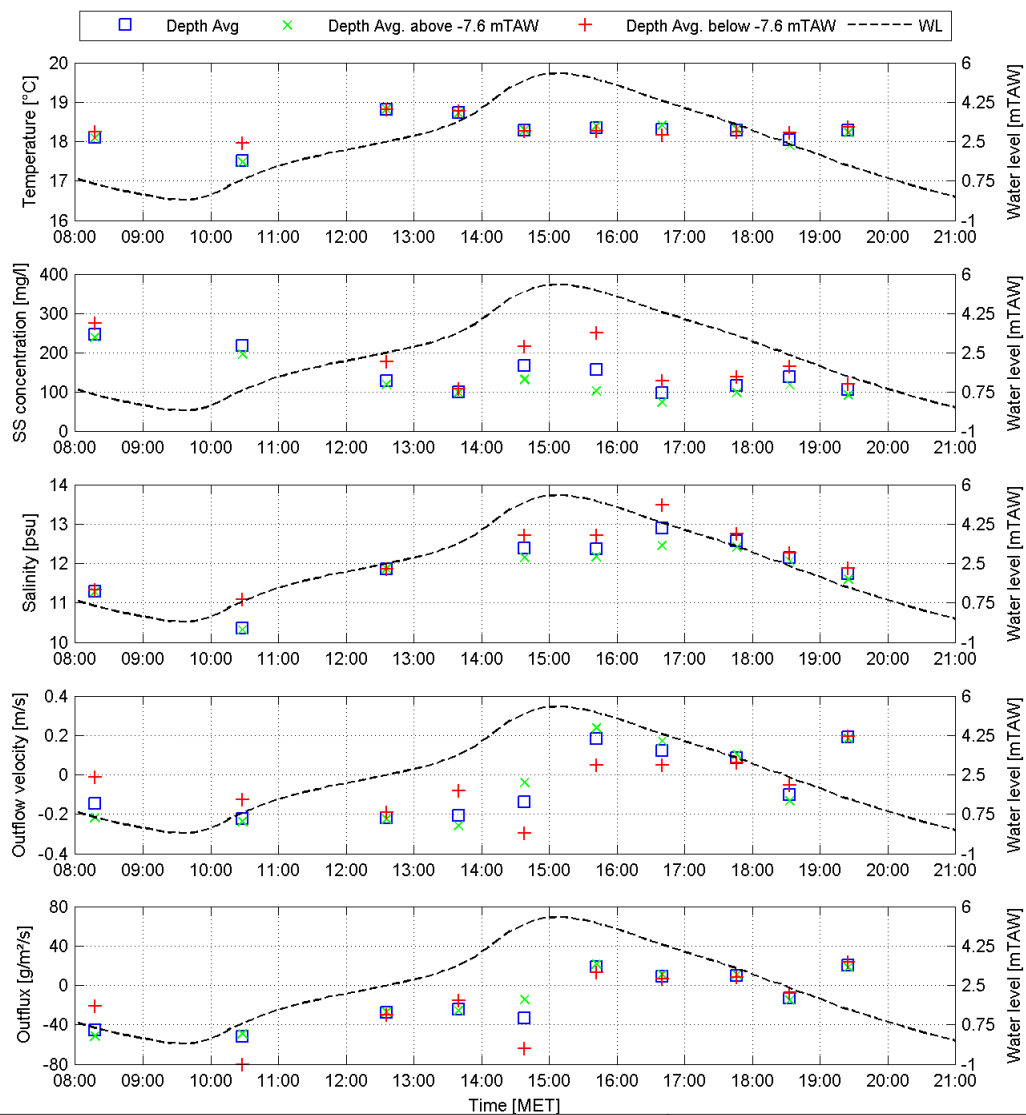
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Xd



Date :

27-Sep-2011

Data Processed by:



In association with :



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

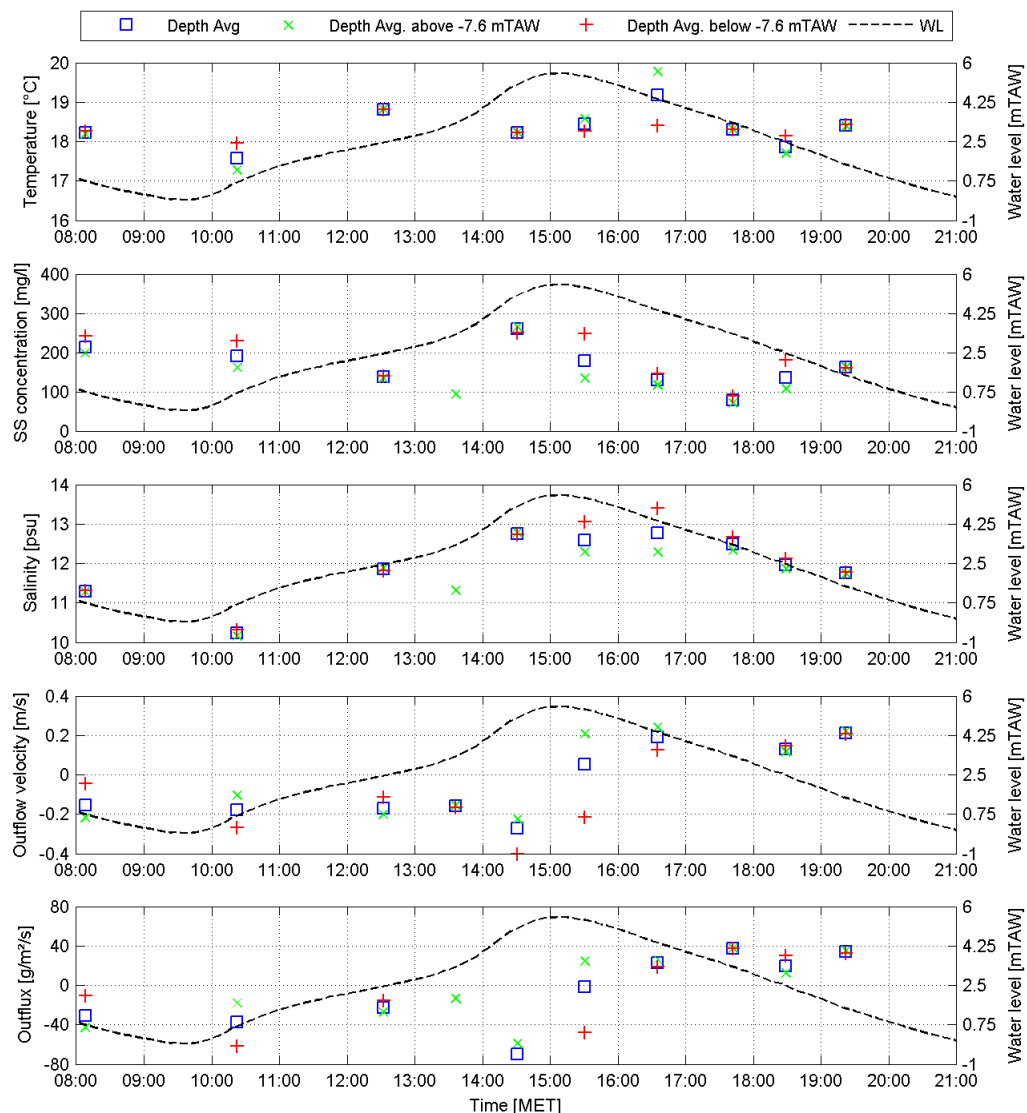
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Xe



Date :

27-Sep-2011

Data Processed by:



In association with :



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

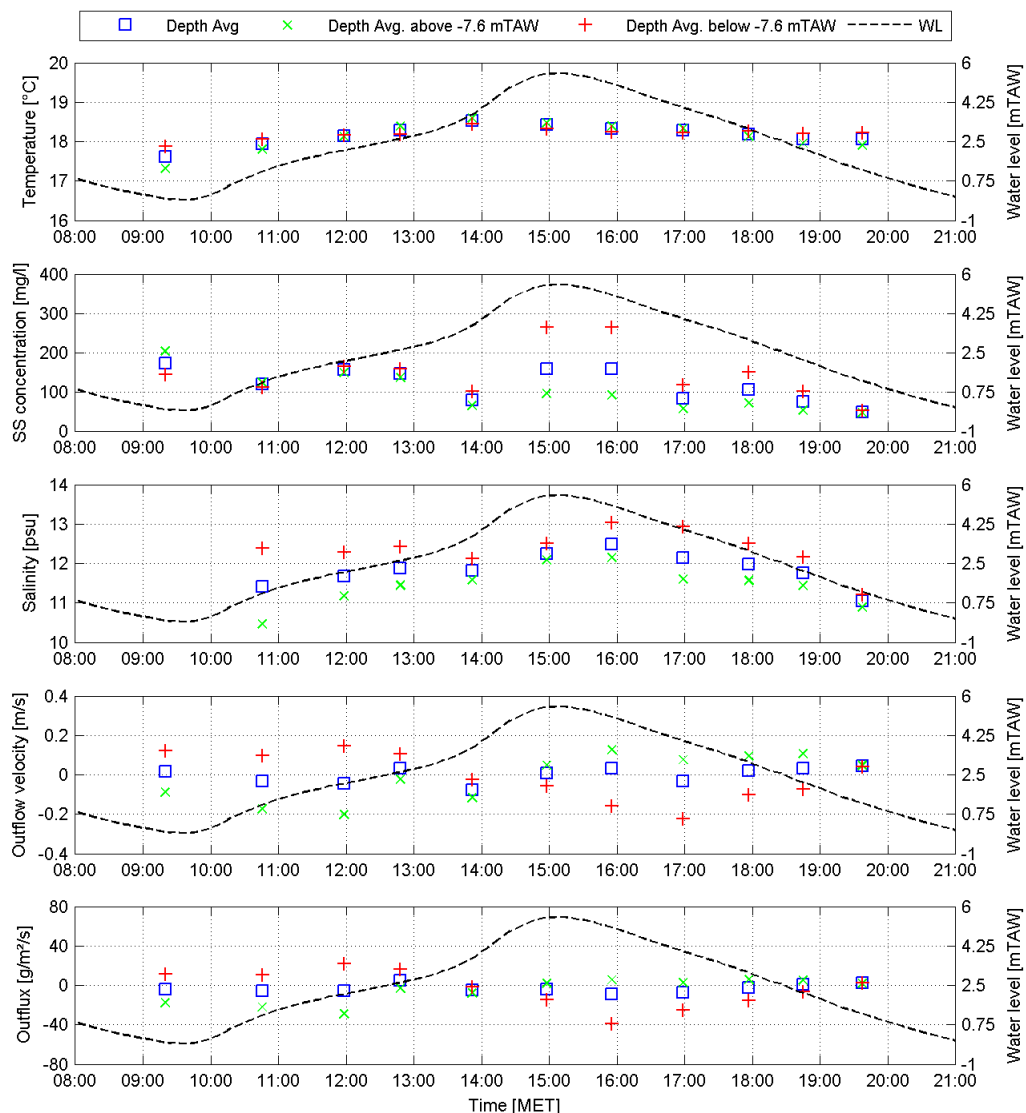
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Ya



Date :

27-Sep-2011

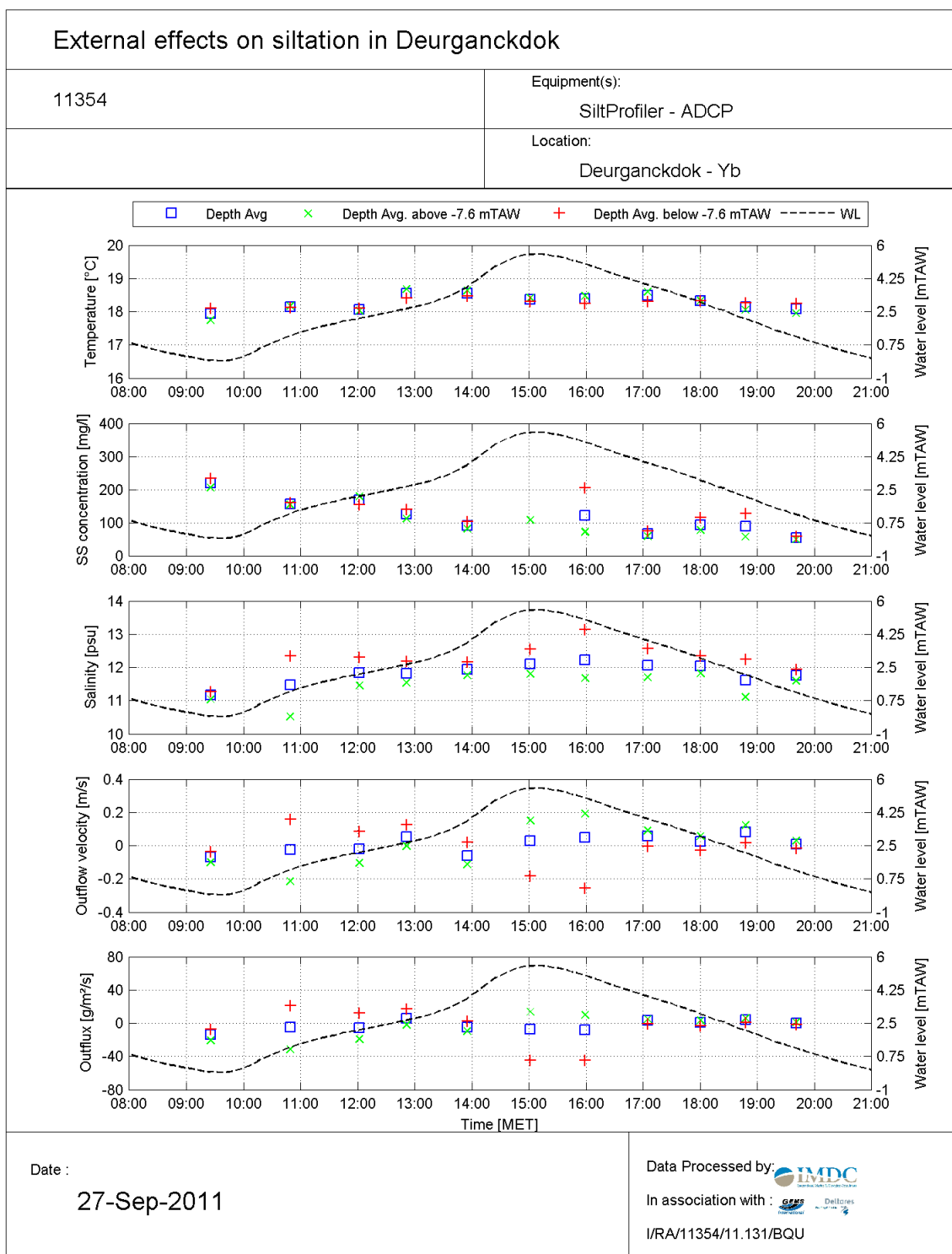
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In association with:



I/RA/11354/11.131/BQU



External effects on siltation in Deurganckdok

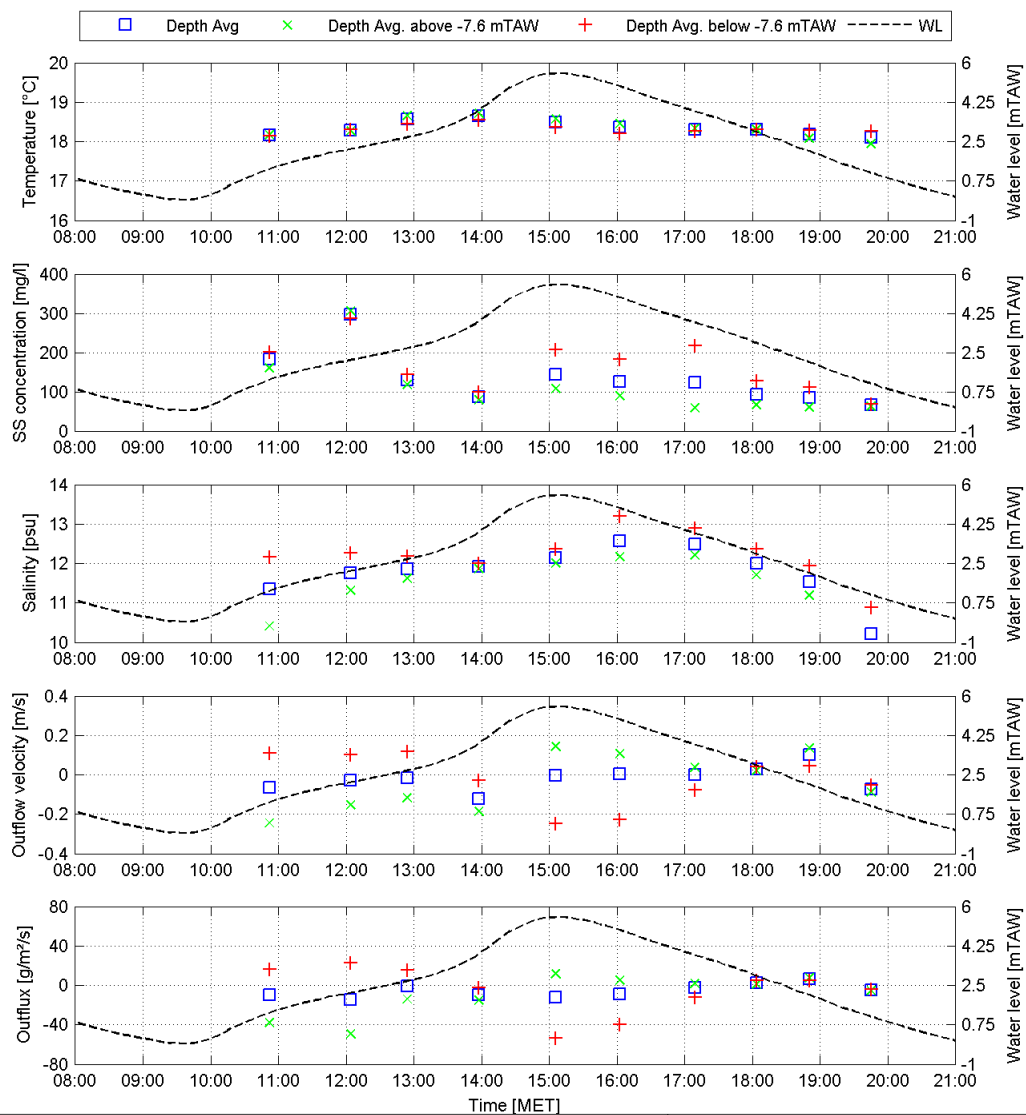
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Yc



Date :

27-Sep-2011

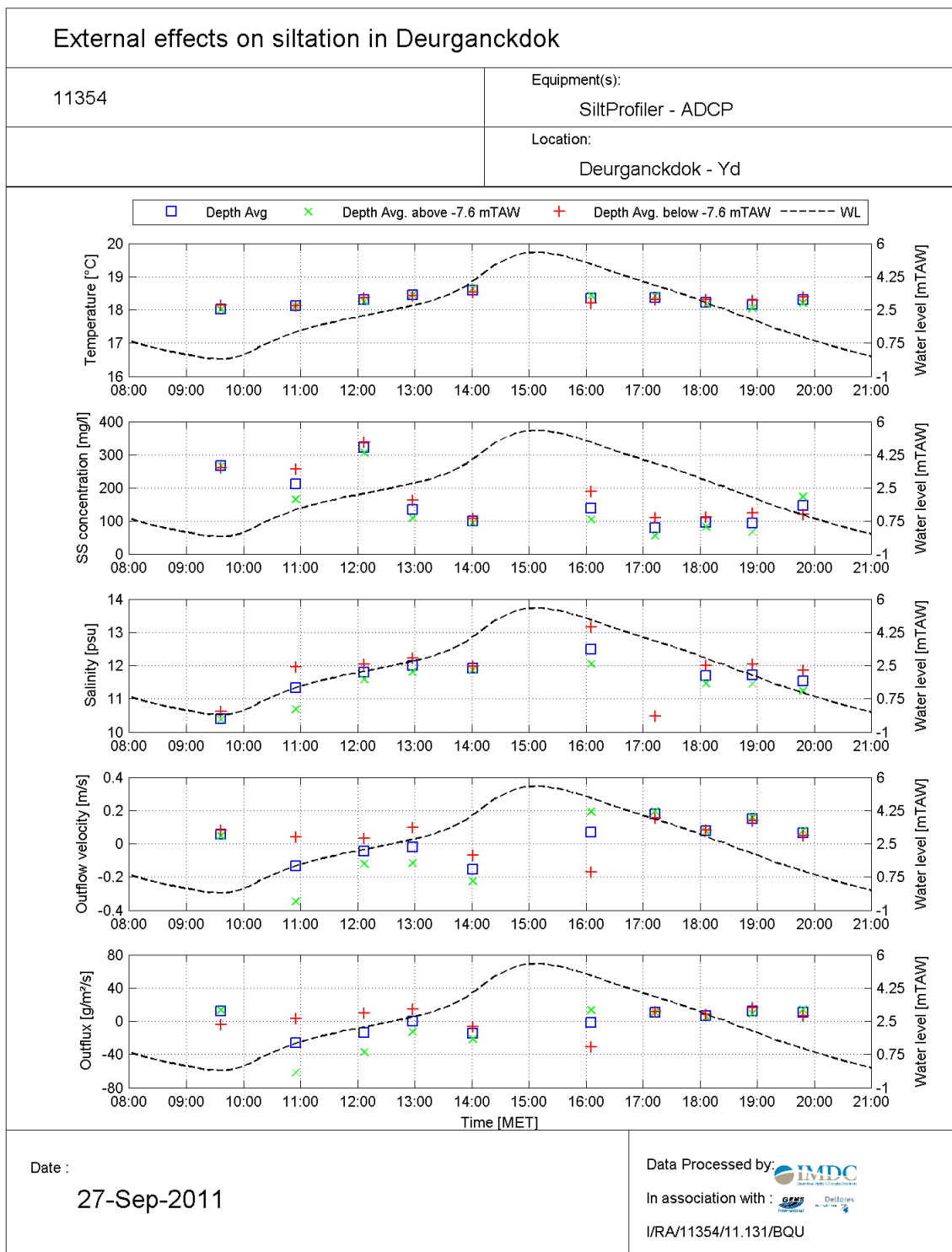
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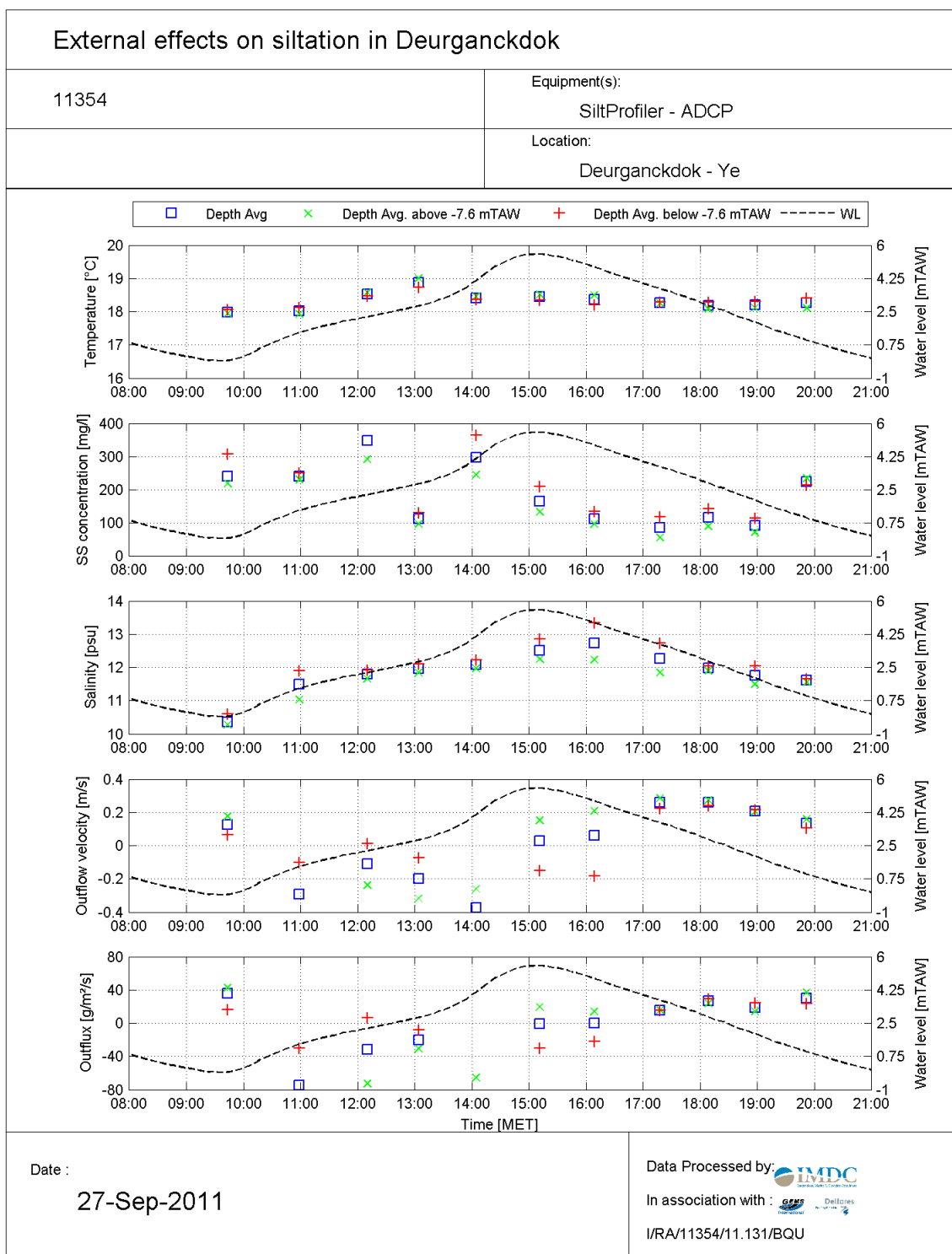


In association with:



I/RA/11354/11.131/BQU





External effects on siltation in Deurganckdok

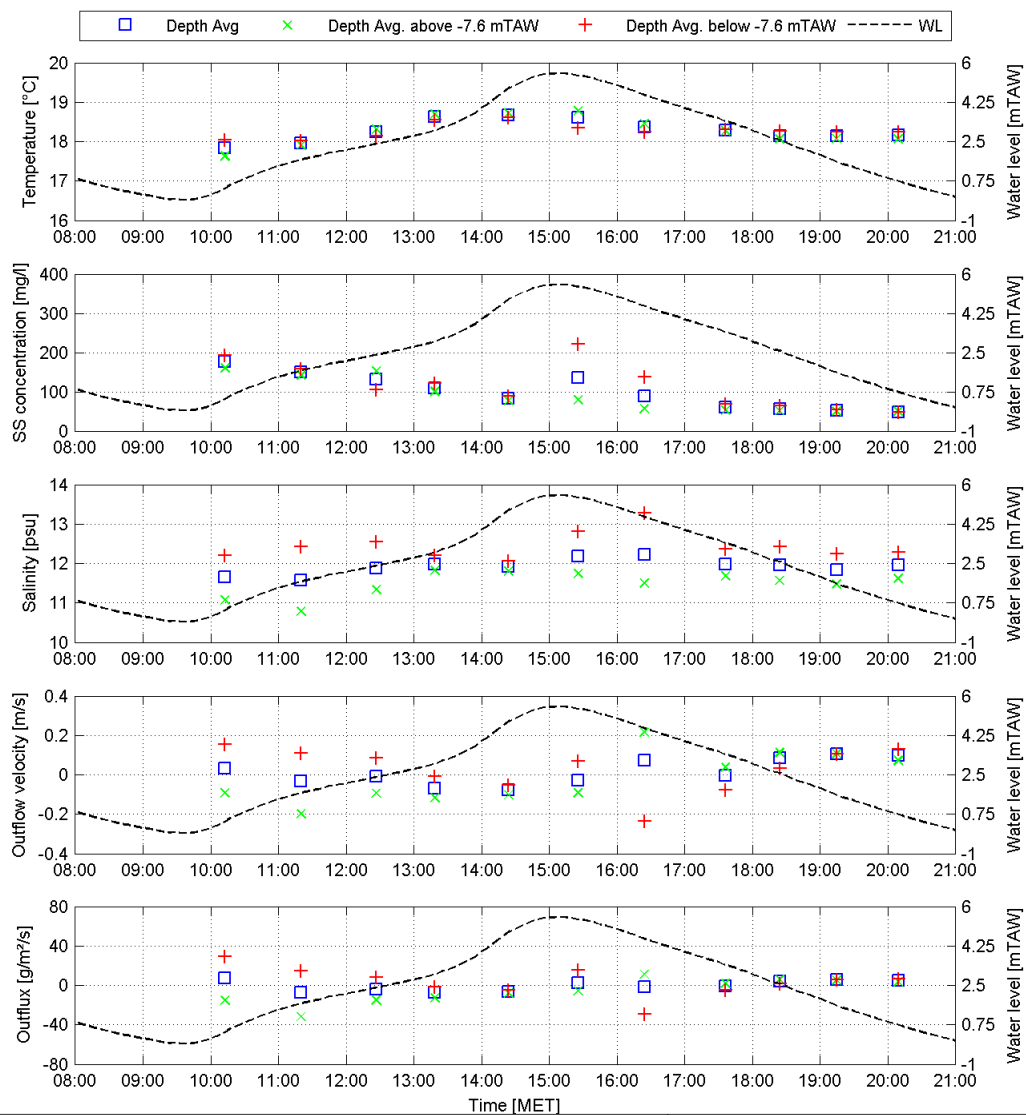
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Za



Date :

27-Sep-2011

Data Processed by:



In association with :



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

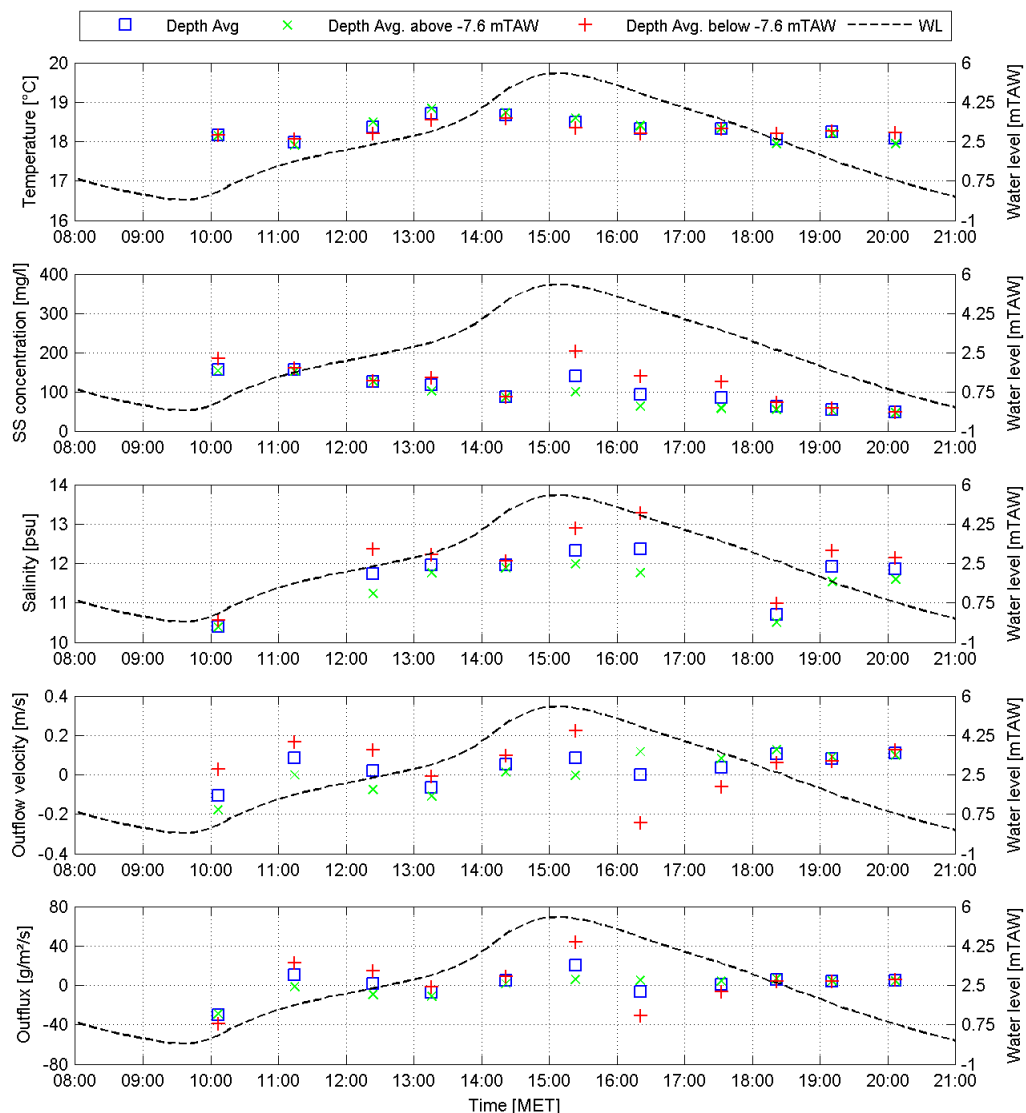
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Zb



Date :

27-Sep-2011

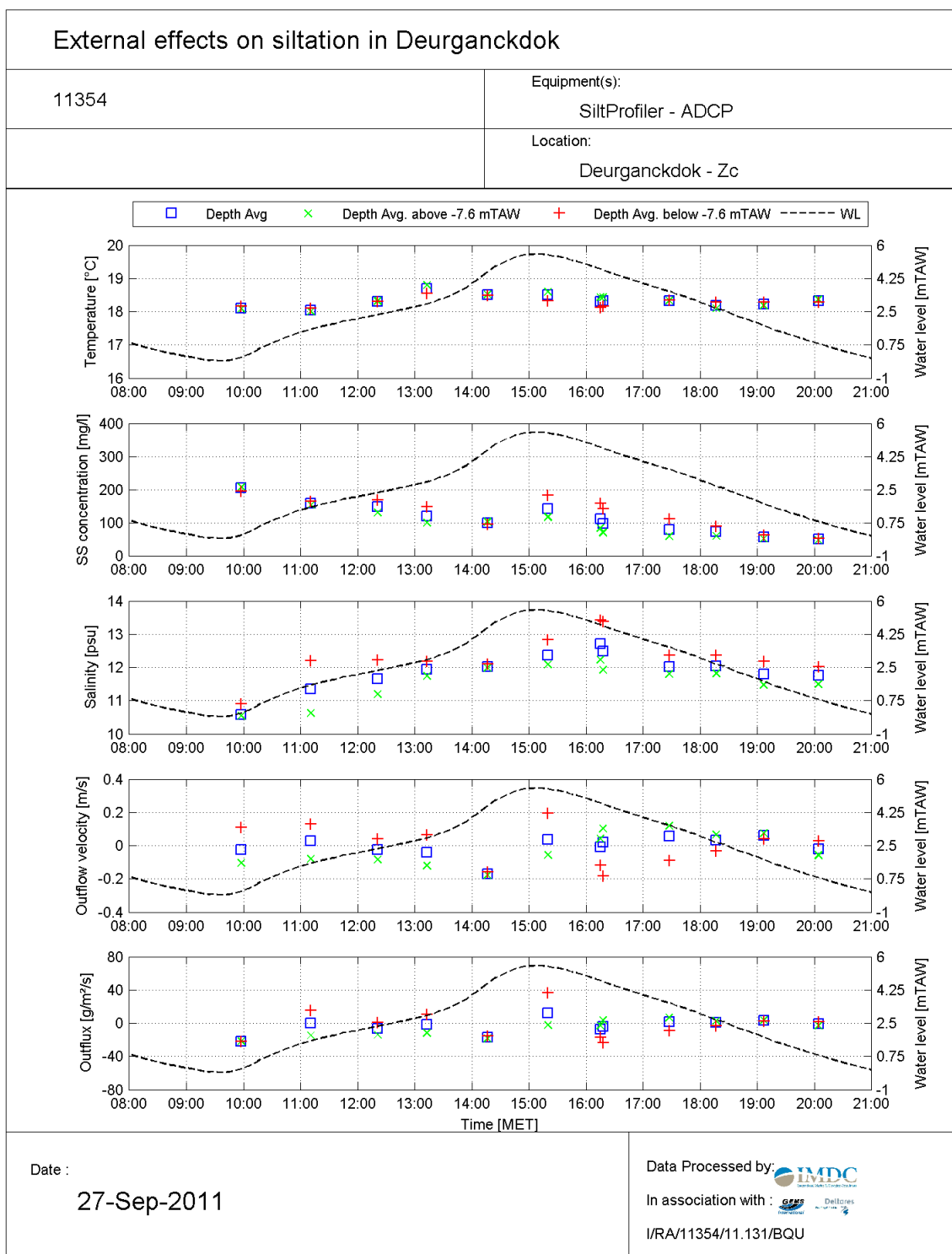
Data Processed by:



In association with :



I/RA/11354/11.131/BQU



External effects on siltation in Deurganckdok

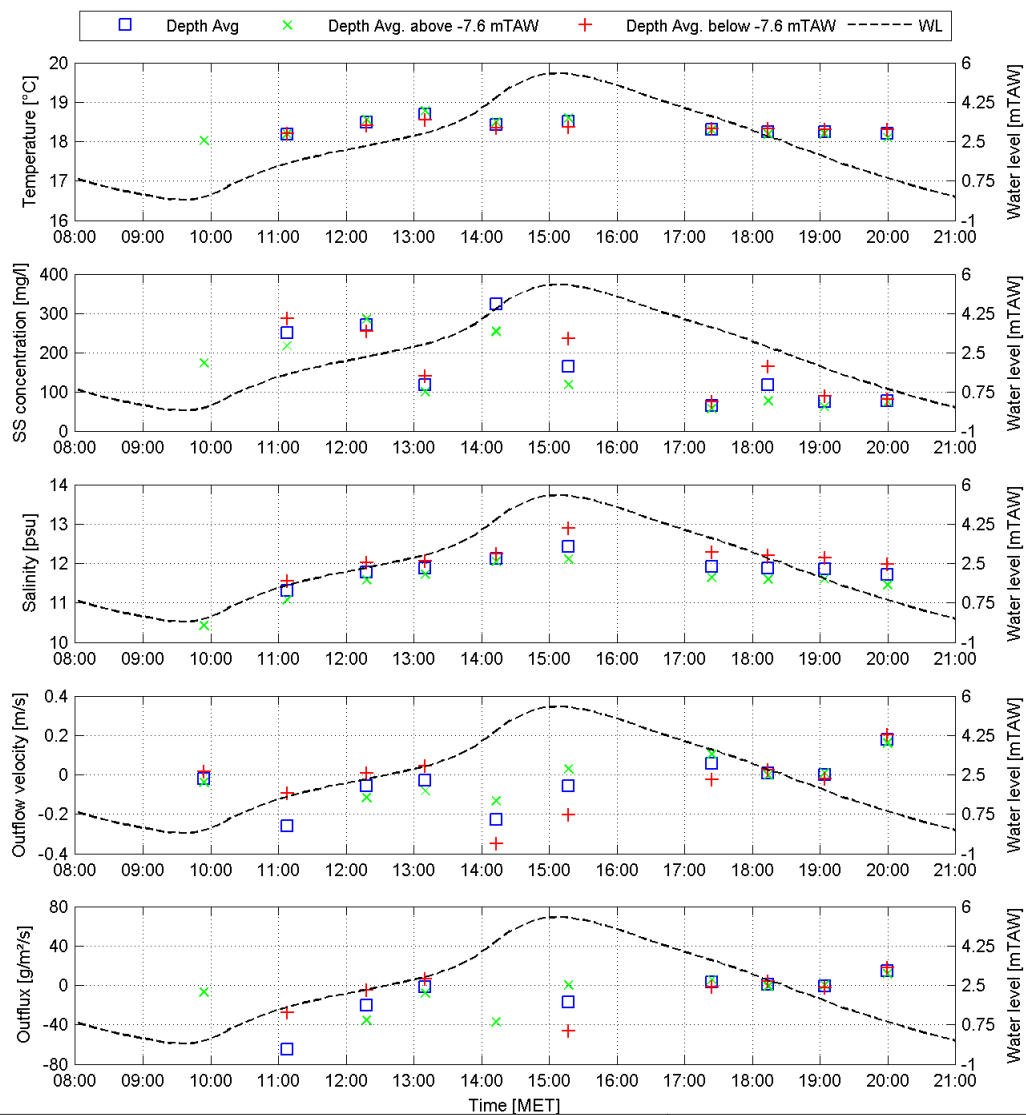
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Zd



Date :

27-Sep-2011

Data Processed by:



In association with :



I/RA/11354/11.131/BQU

External effects on siltation in Deurganckdok

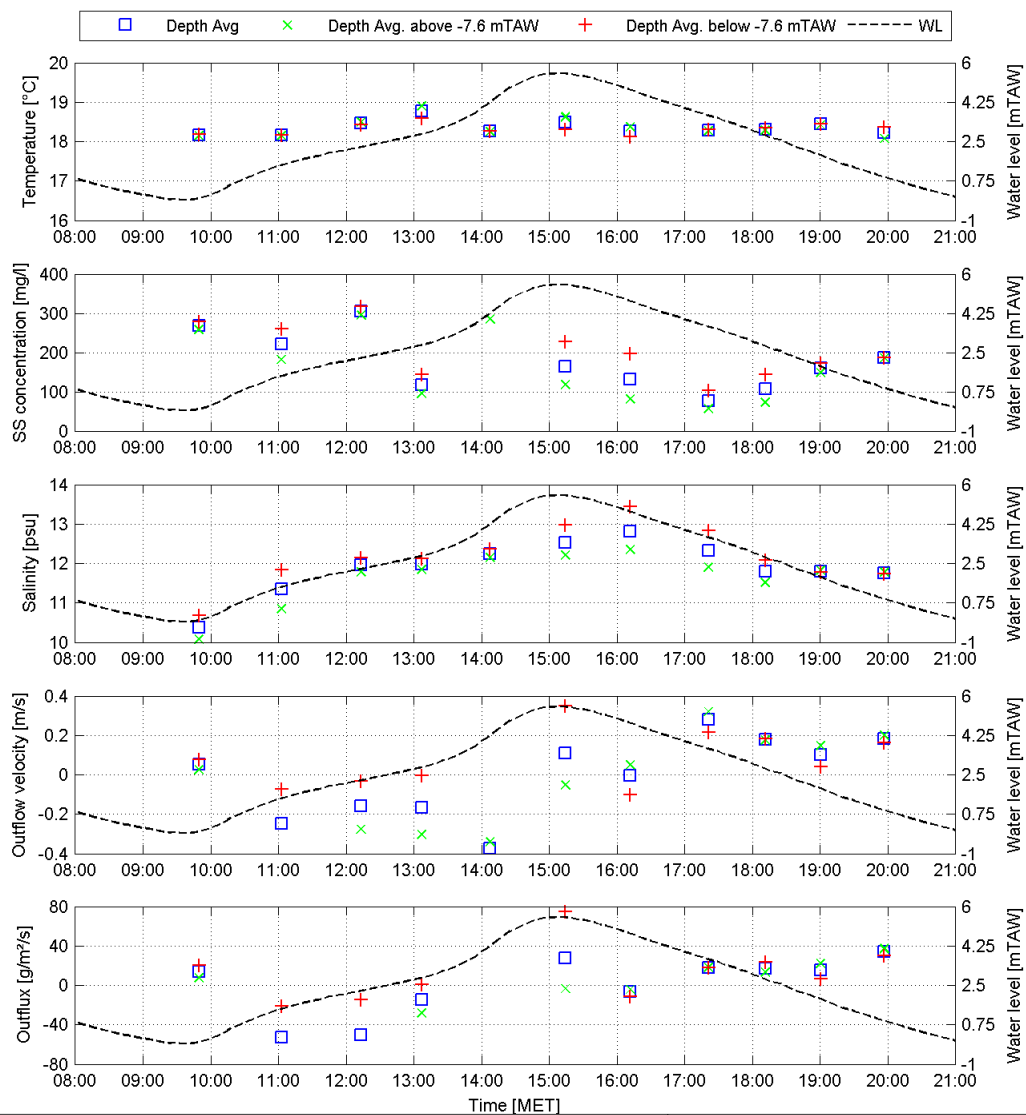
11354

Equipment(s):

SiltProfiler - ADCP

Location:

Deurganckdok - Ze



Date :

27-Sep-2011

Data Processed by:



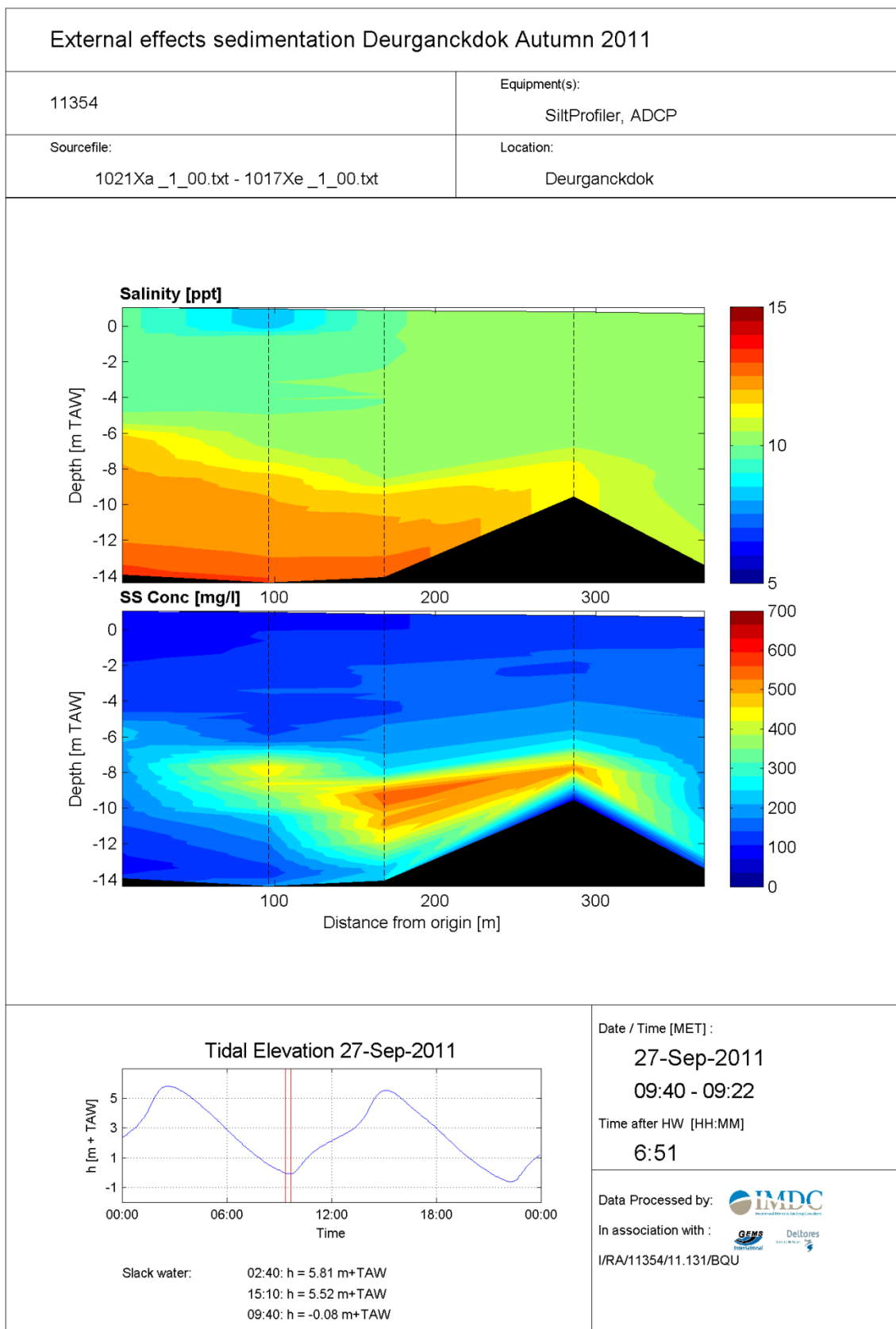
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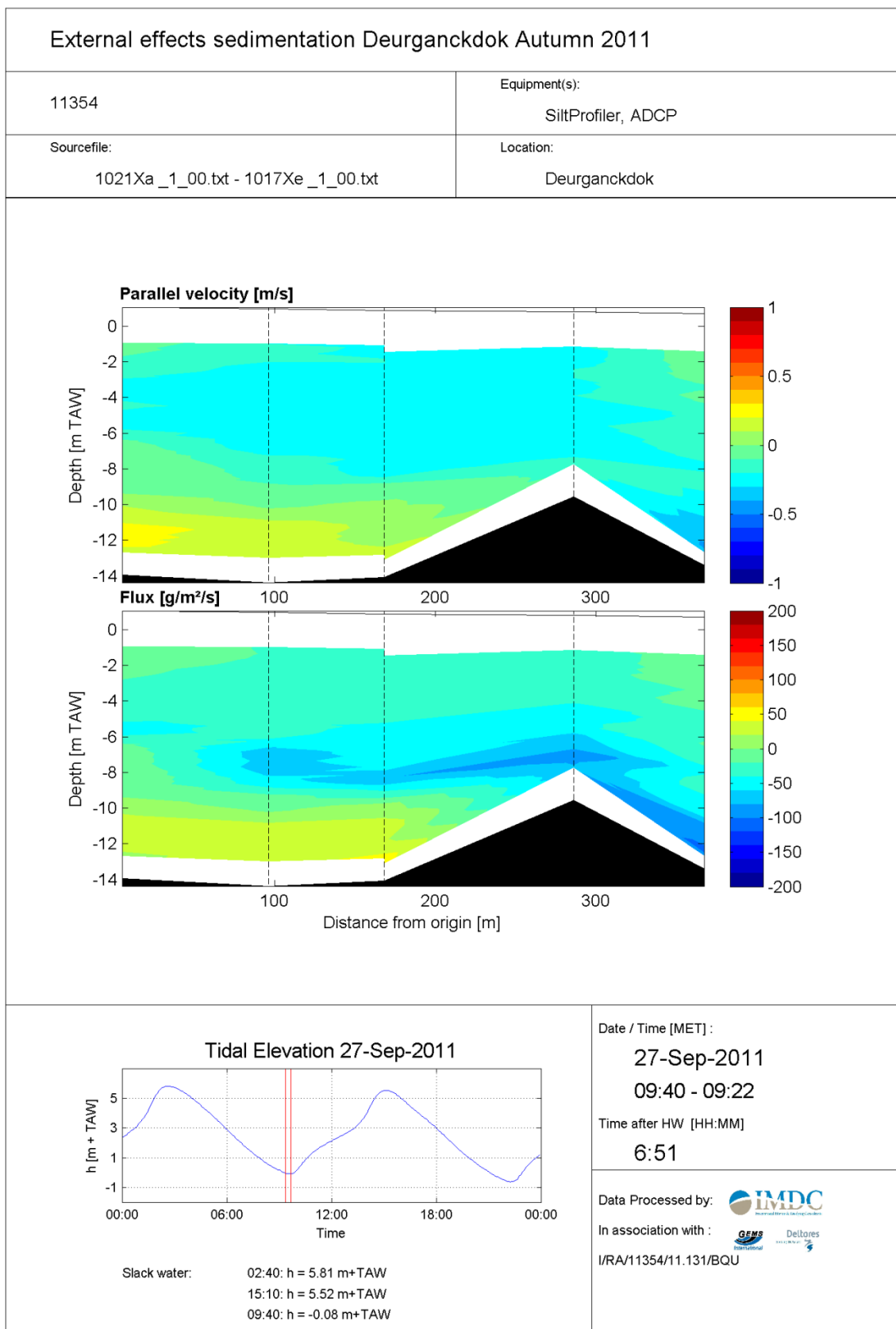


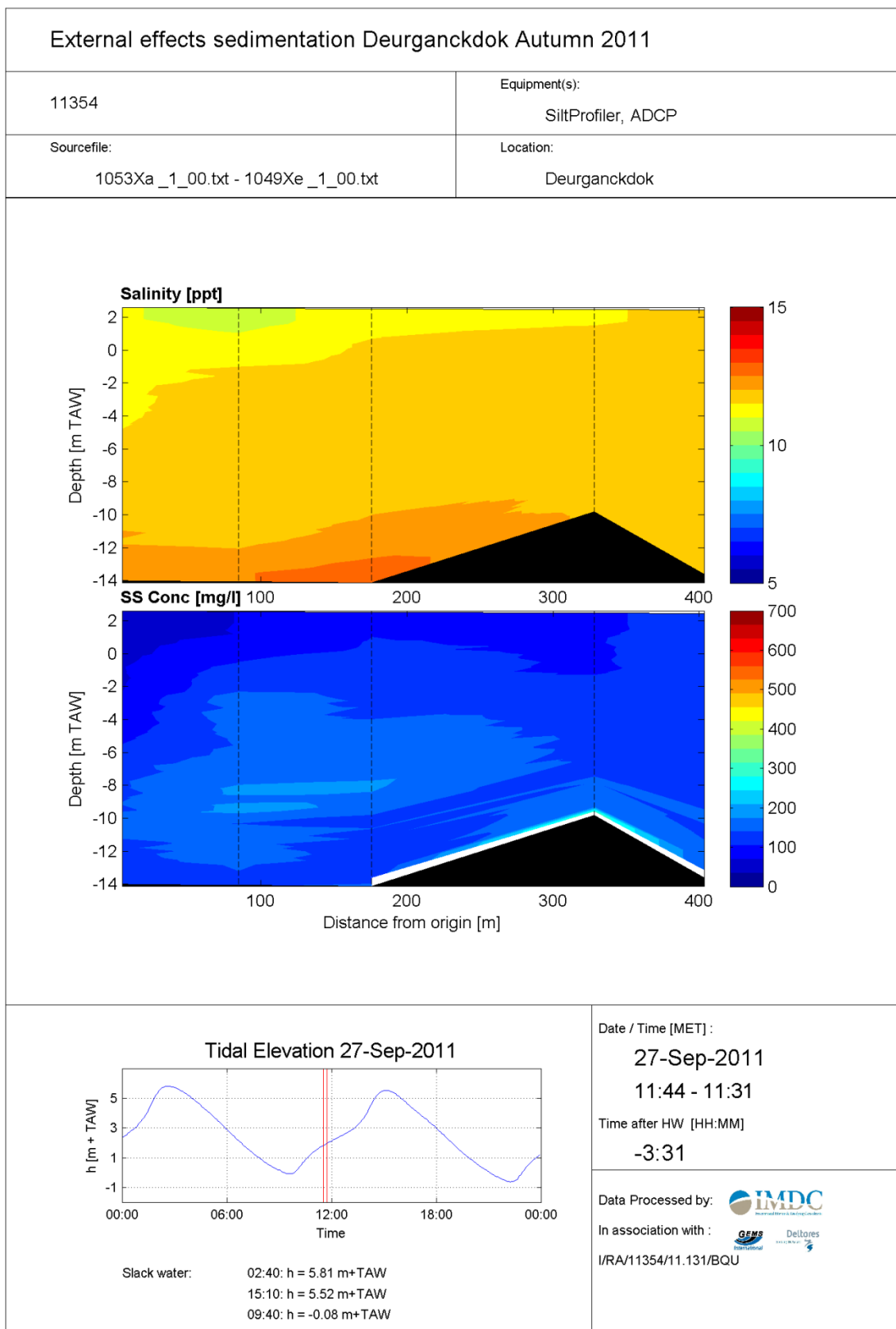
I/RA/11354/11.131/BQU

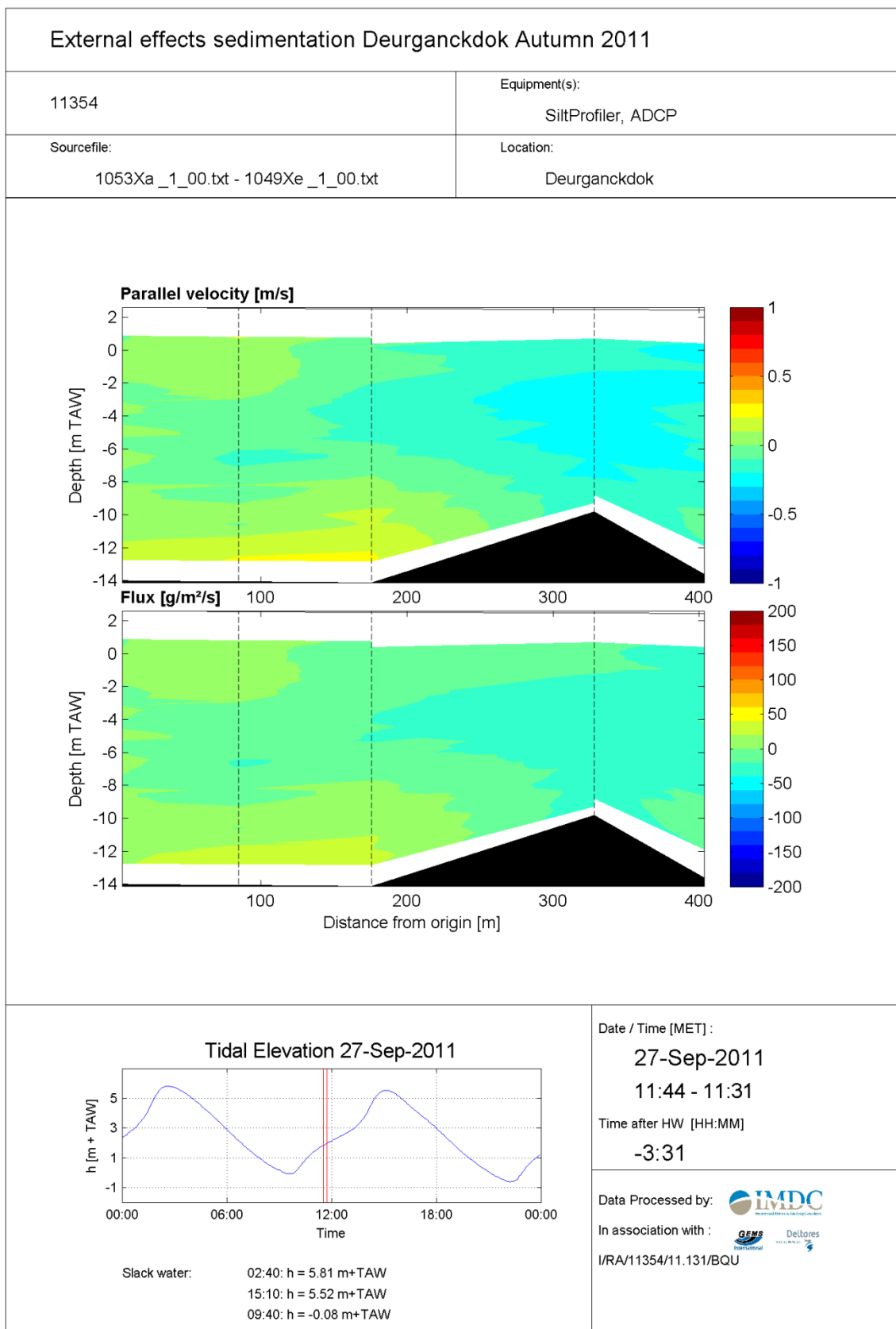
Annex F Spatial Distribution of the Siltprofiles

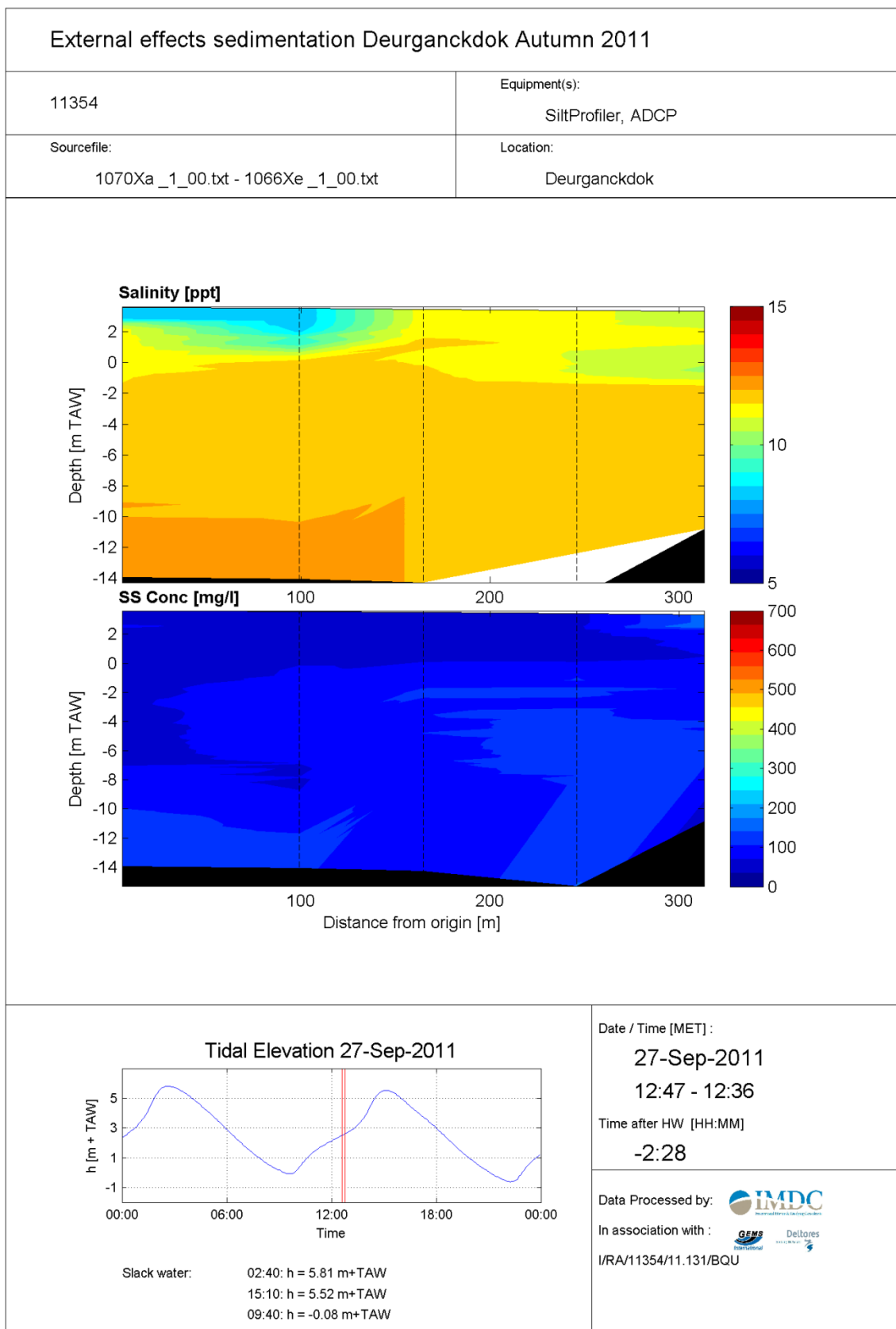
F.1 Cross-section X

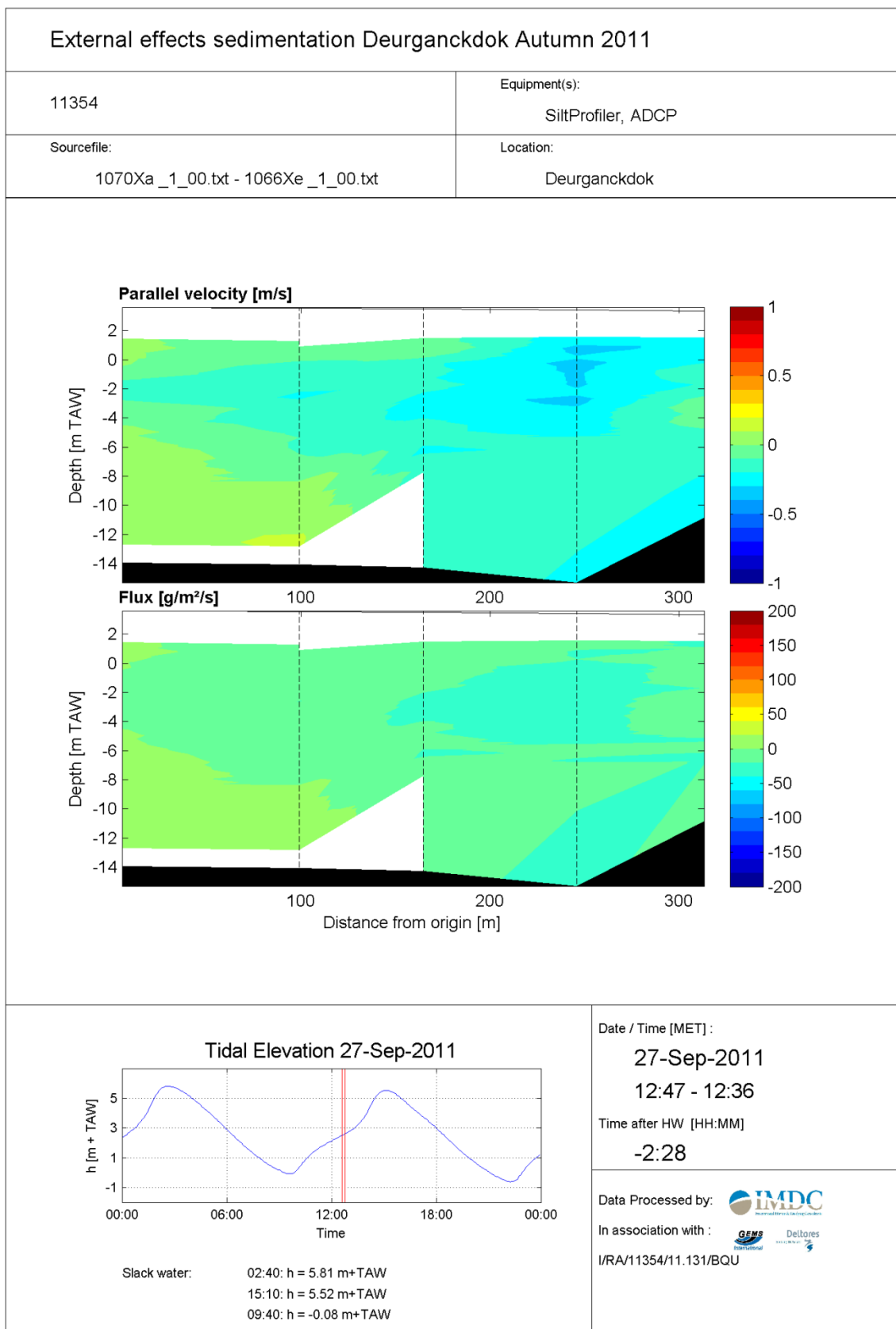


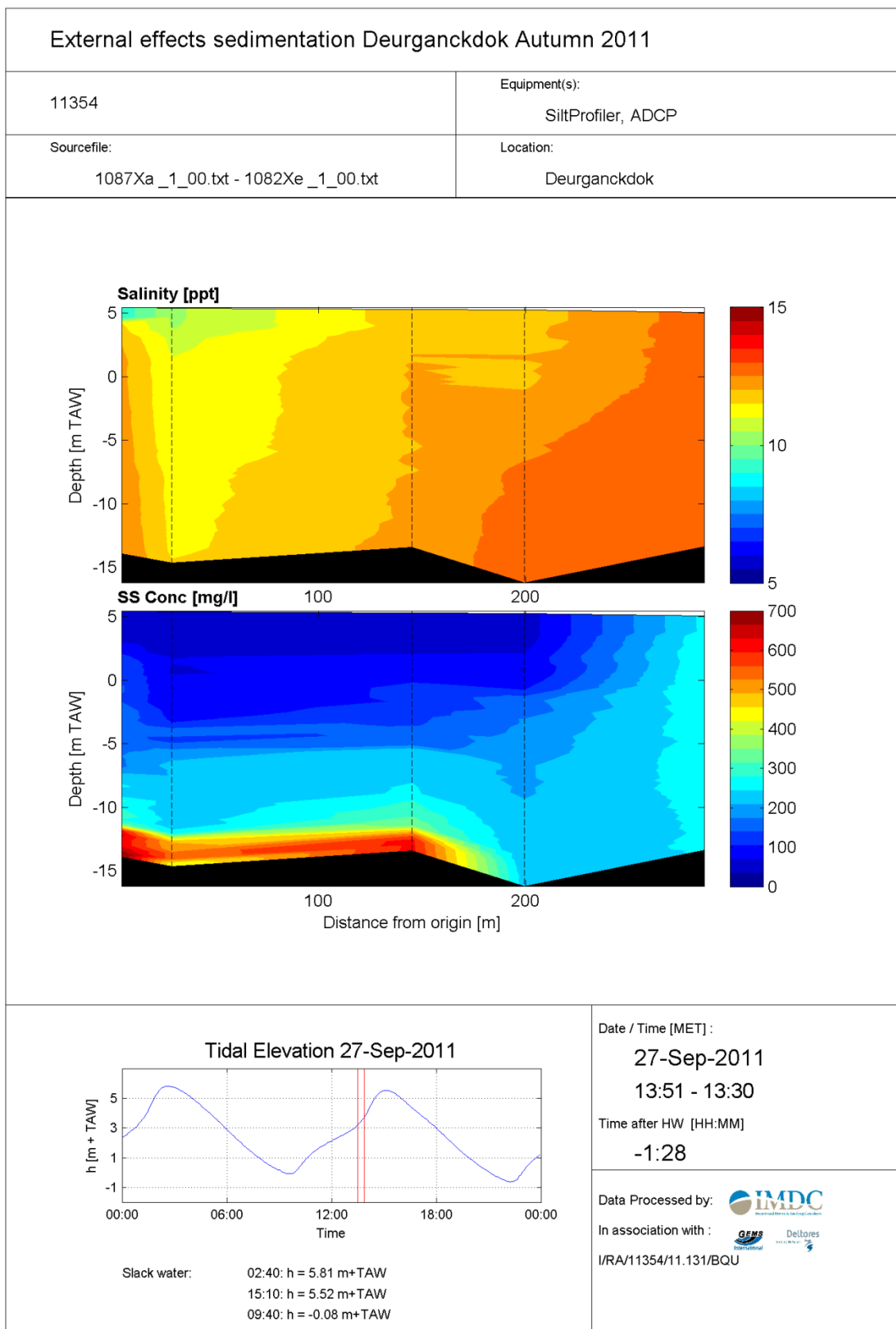


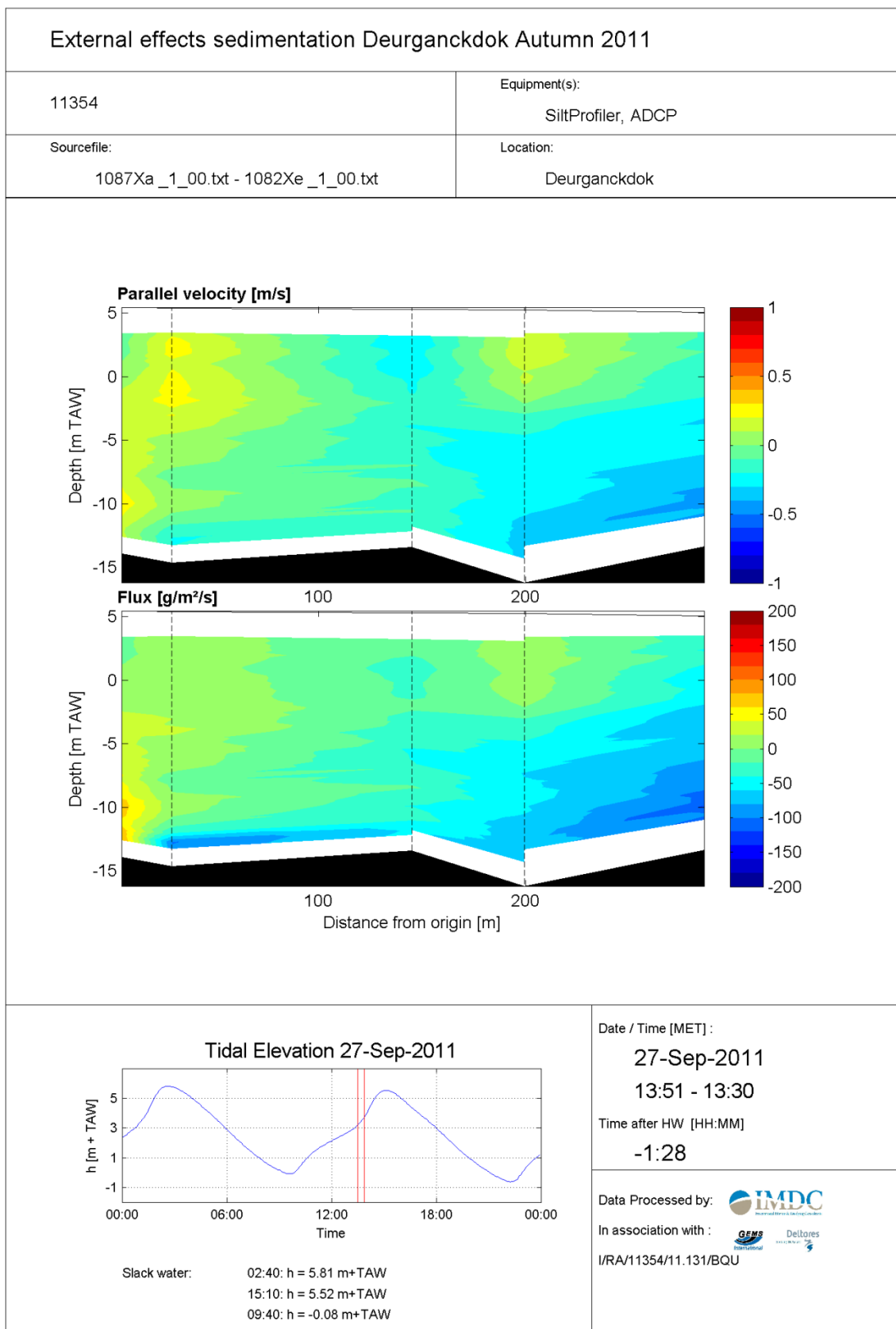


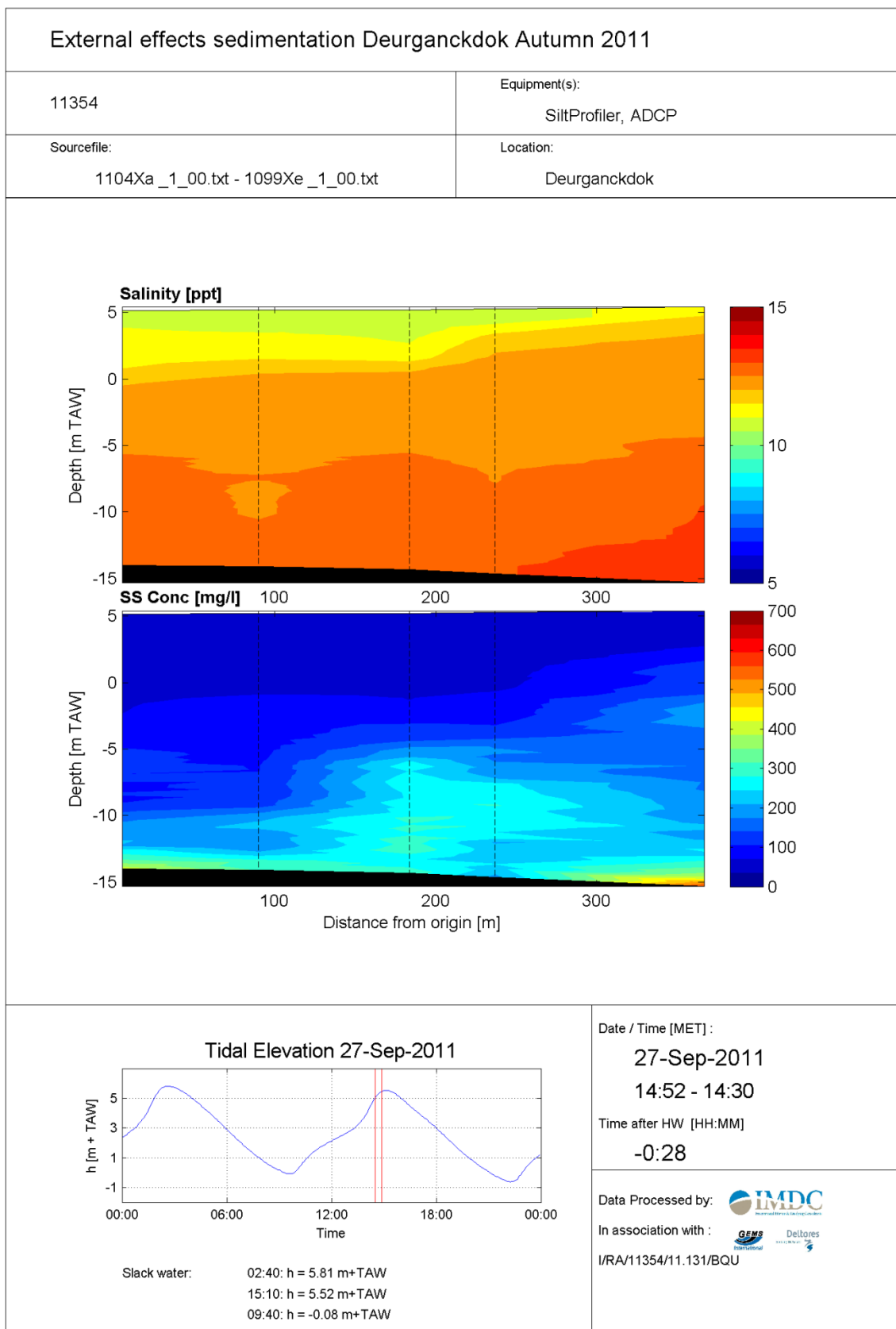


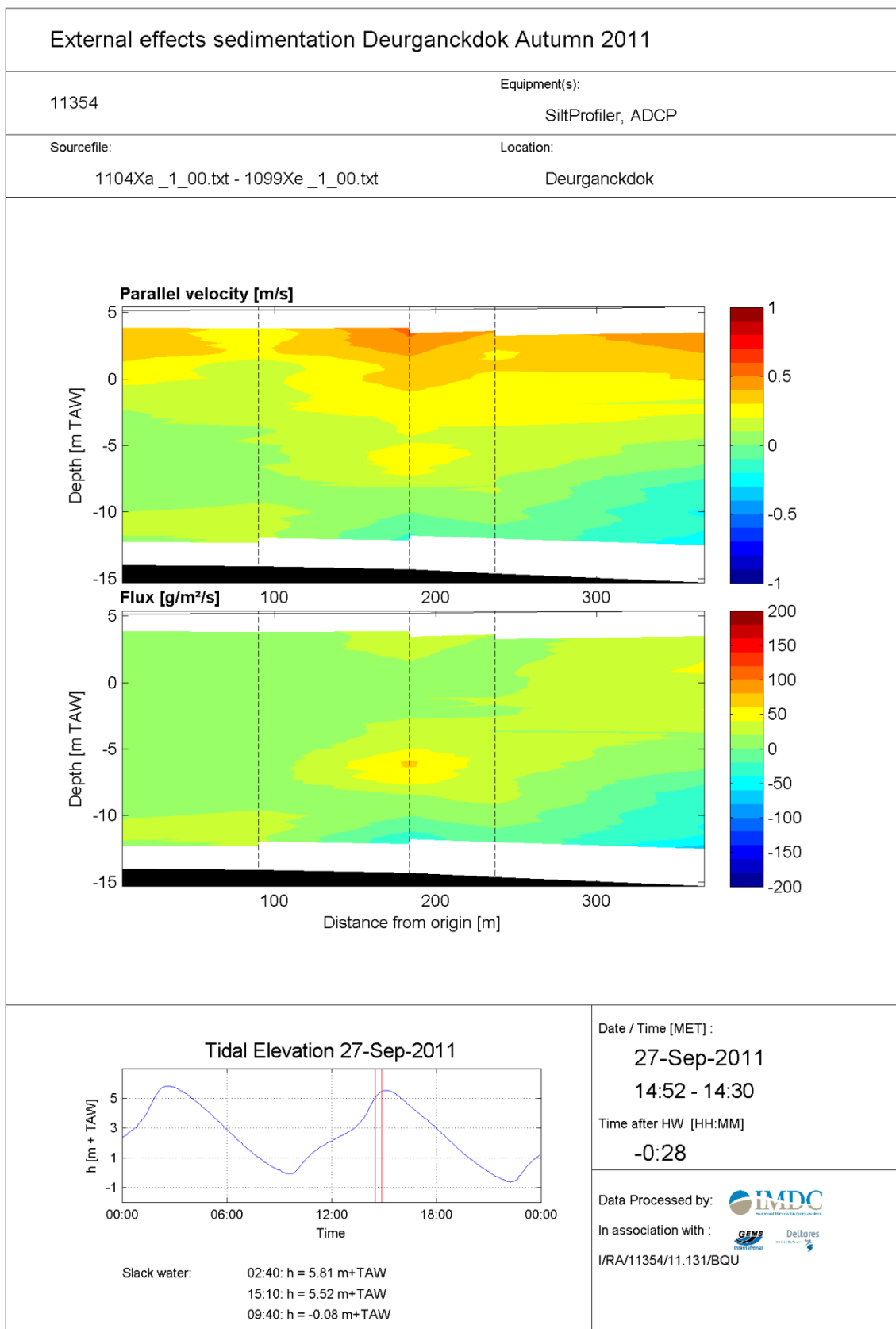


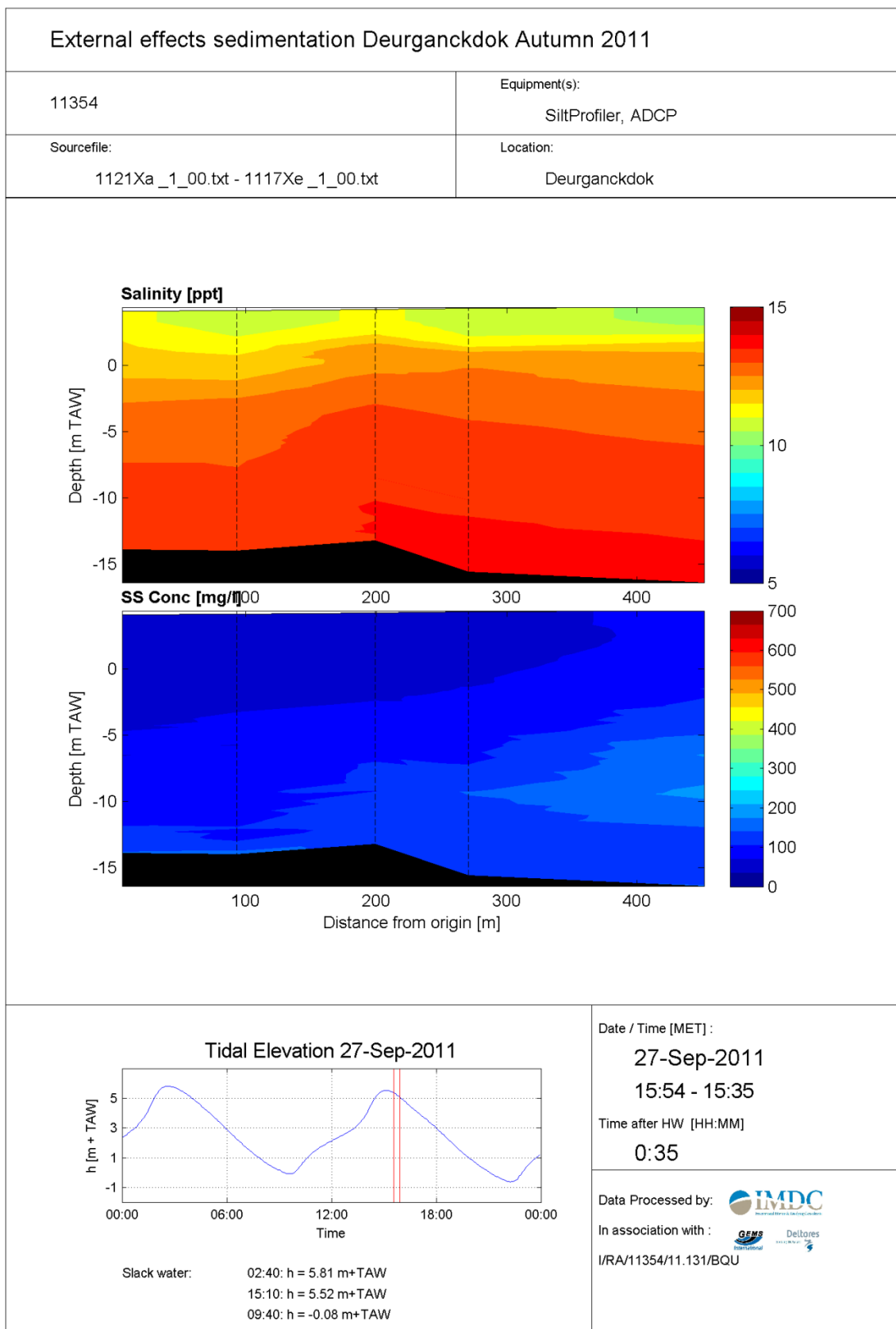


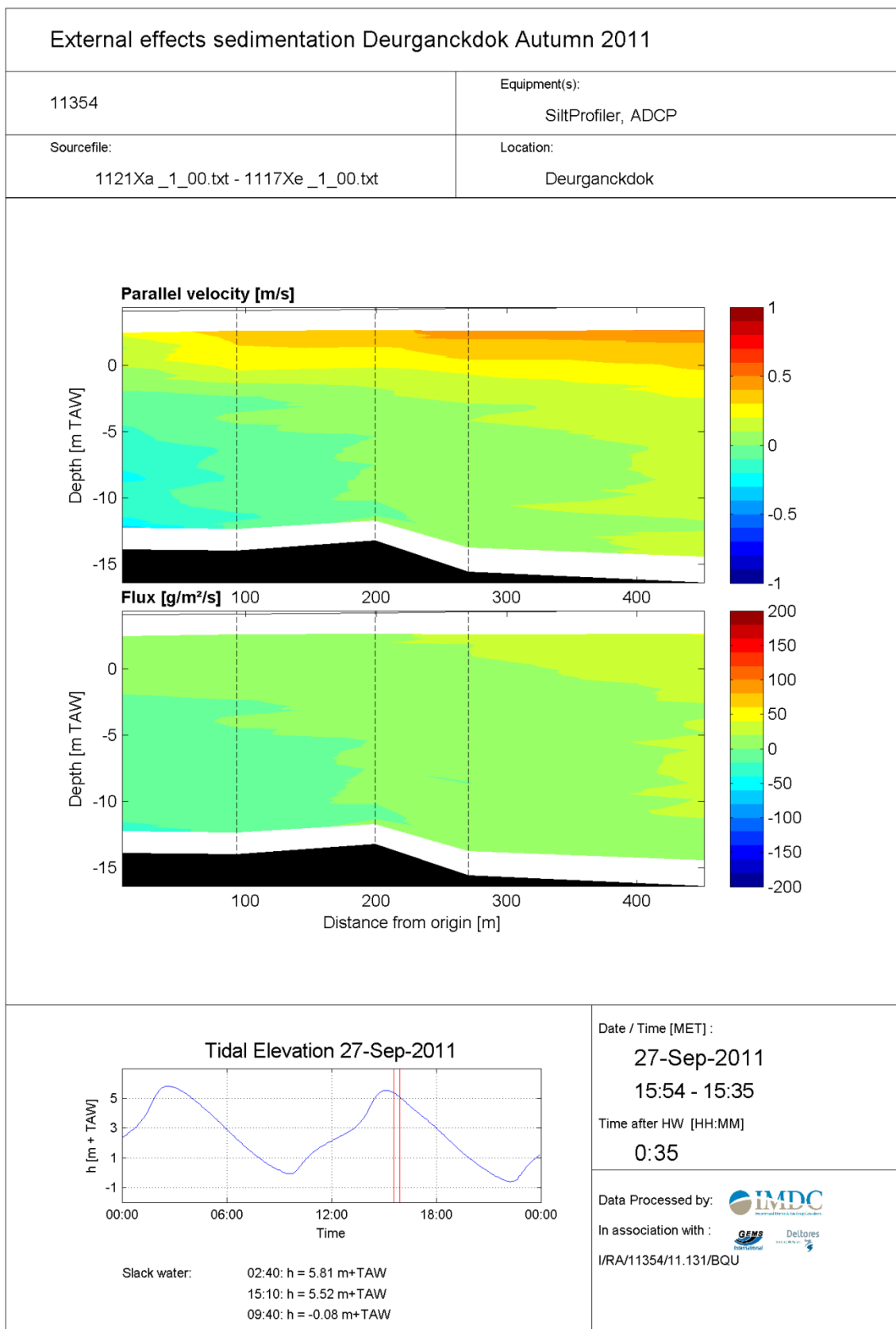


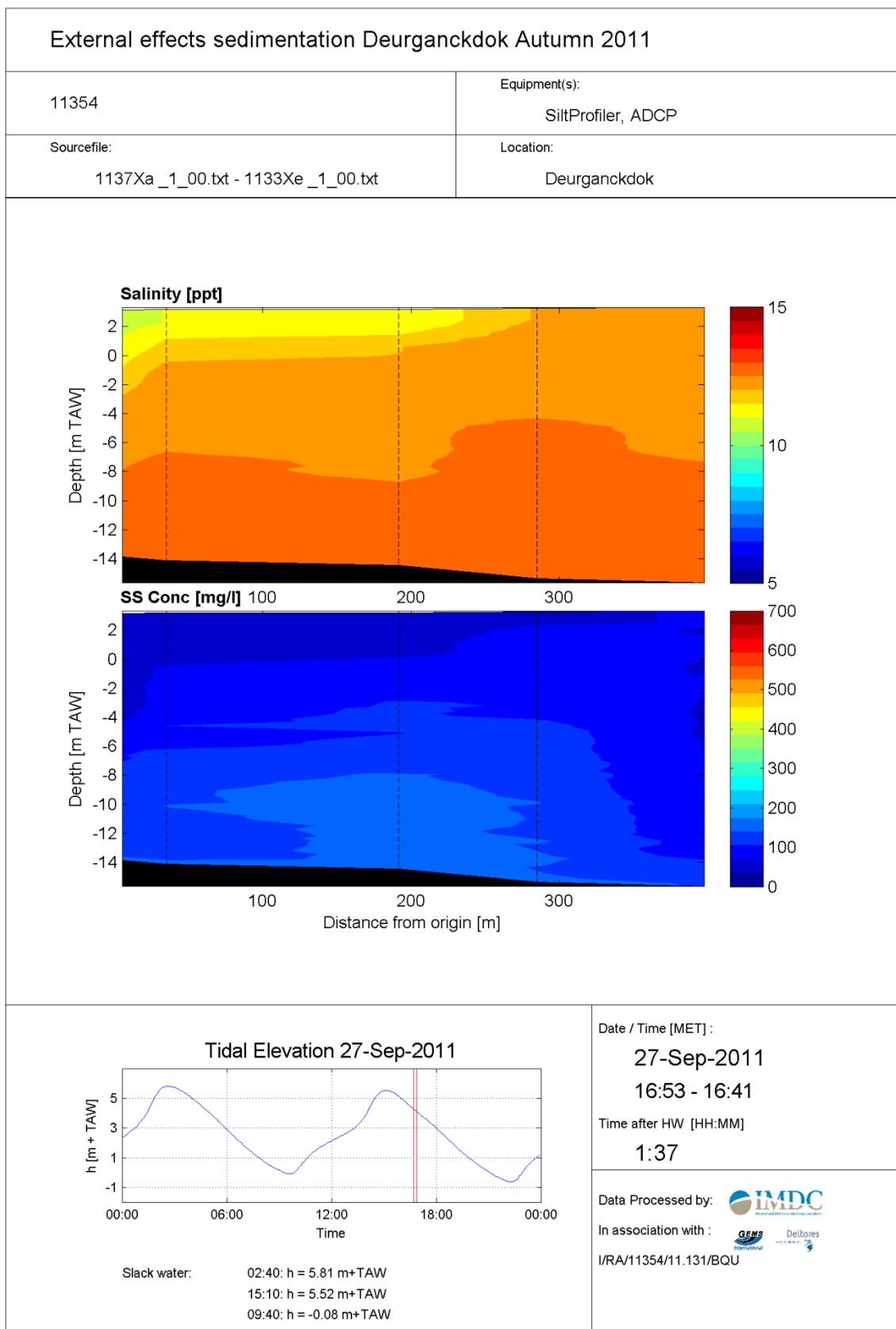


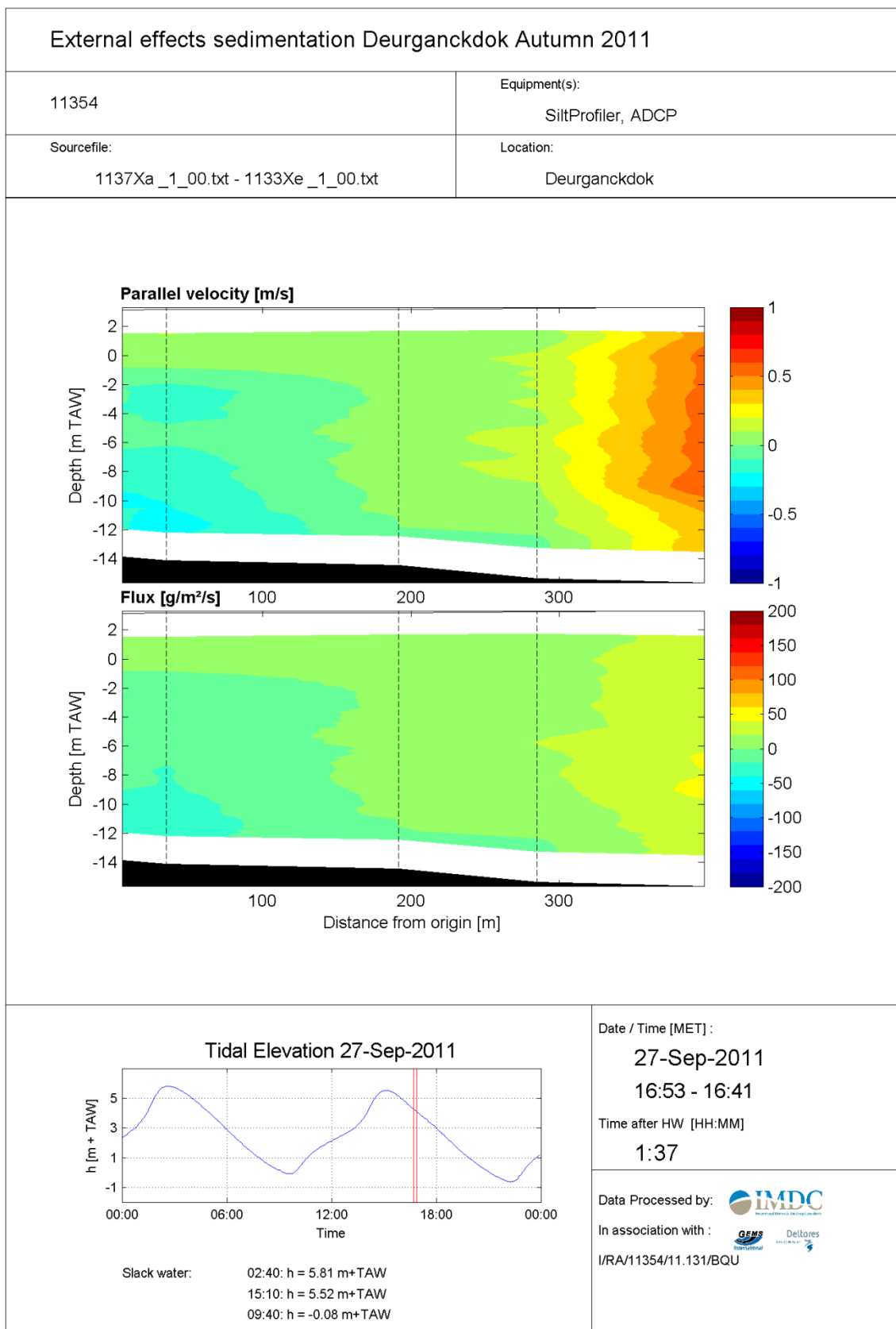


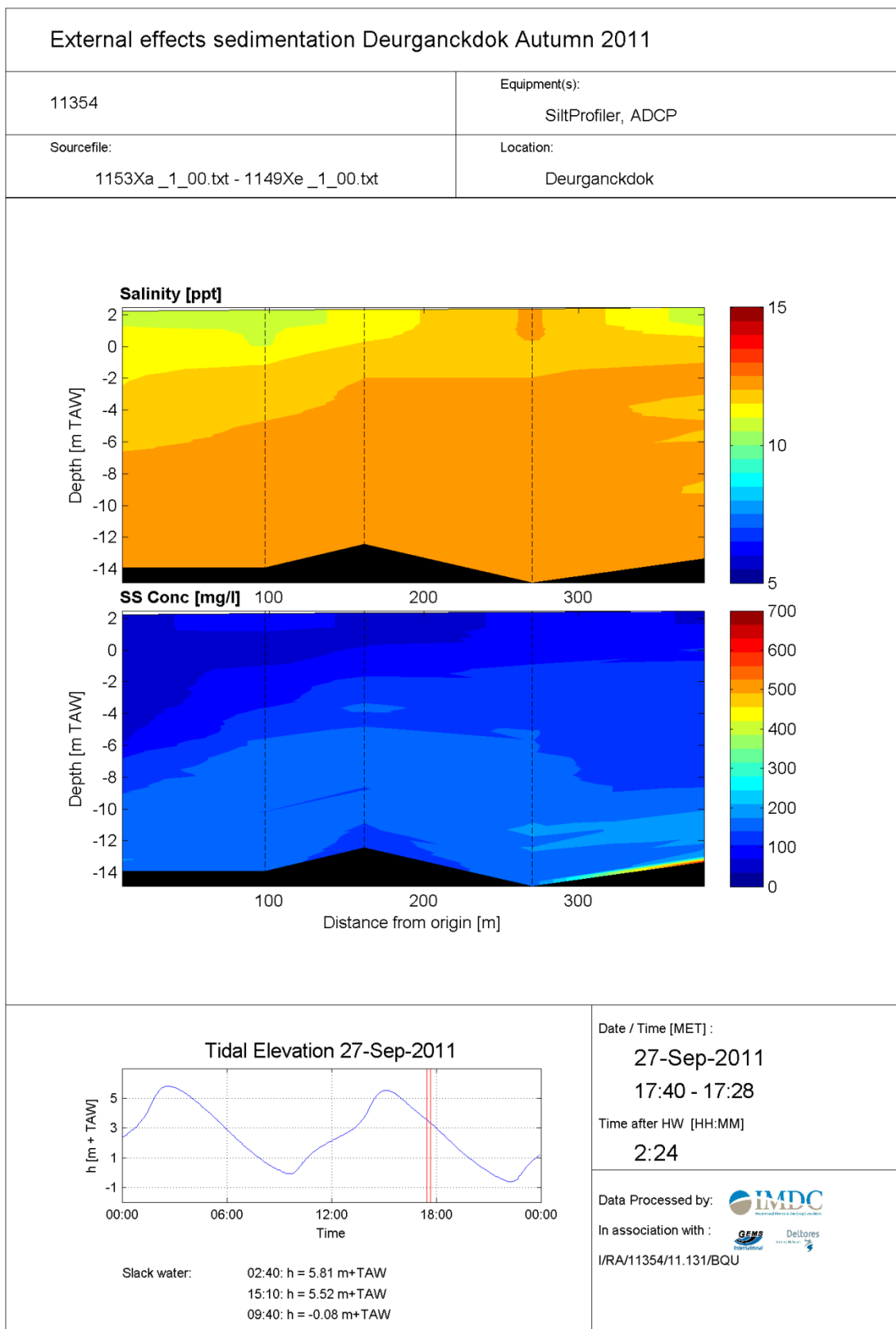


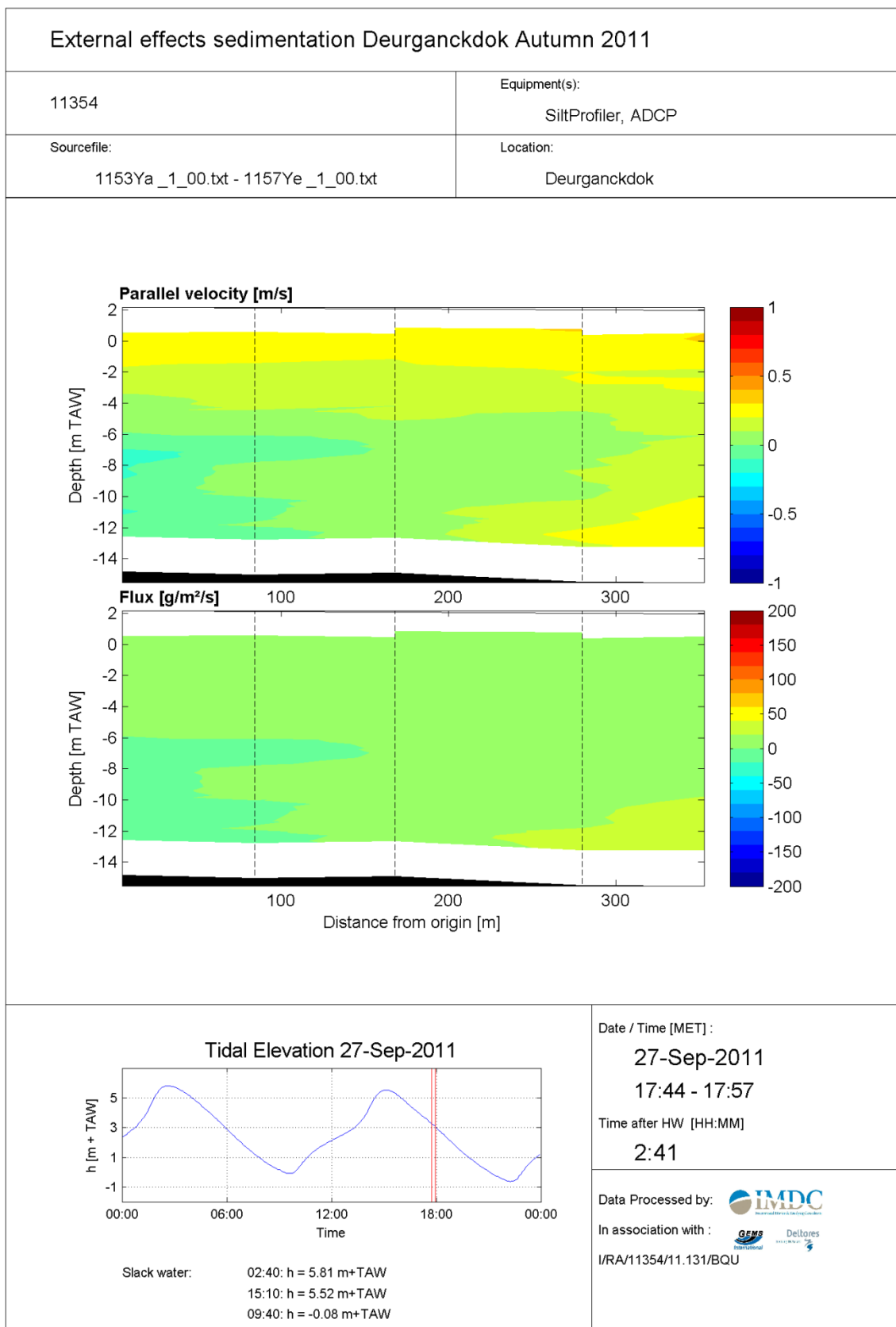


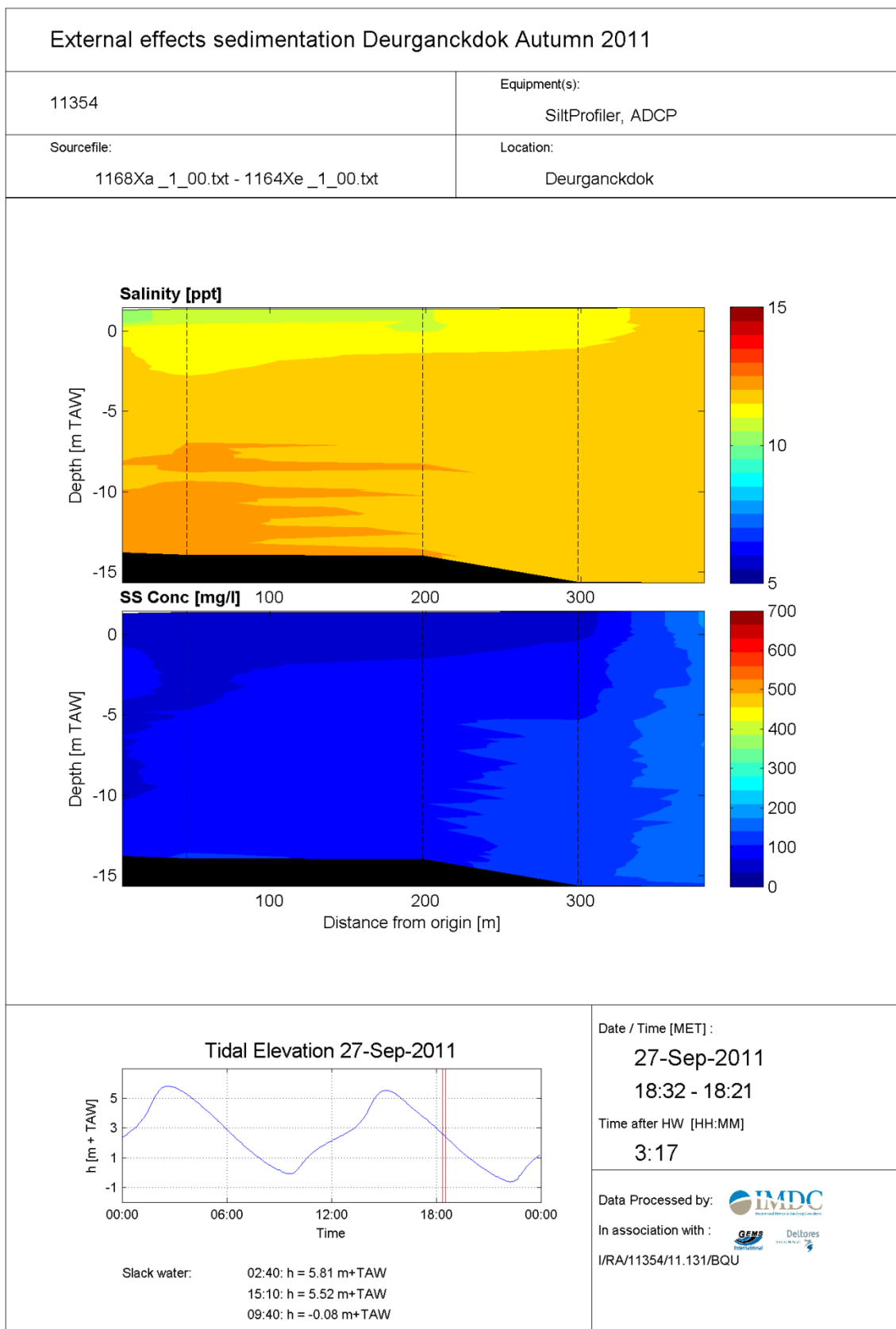


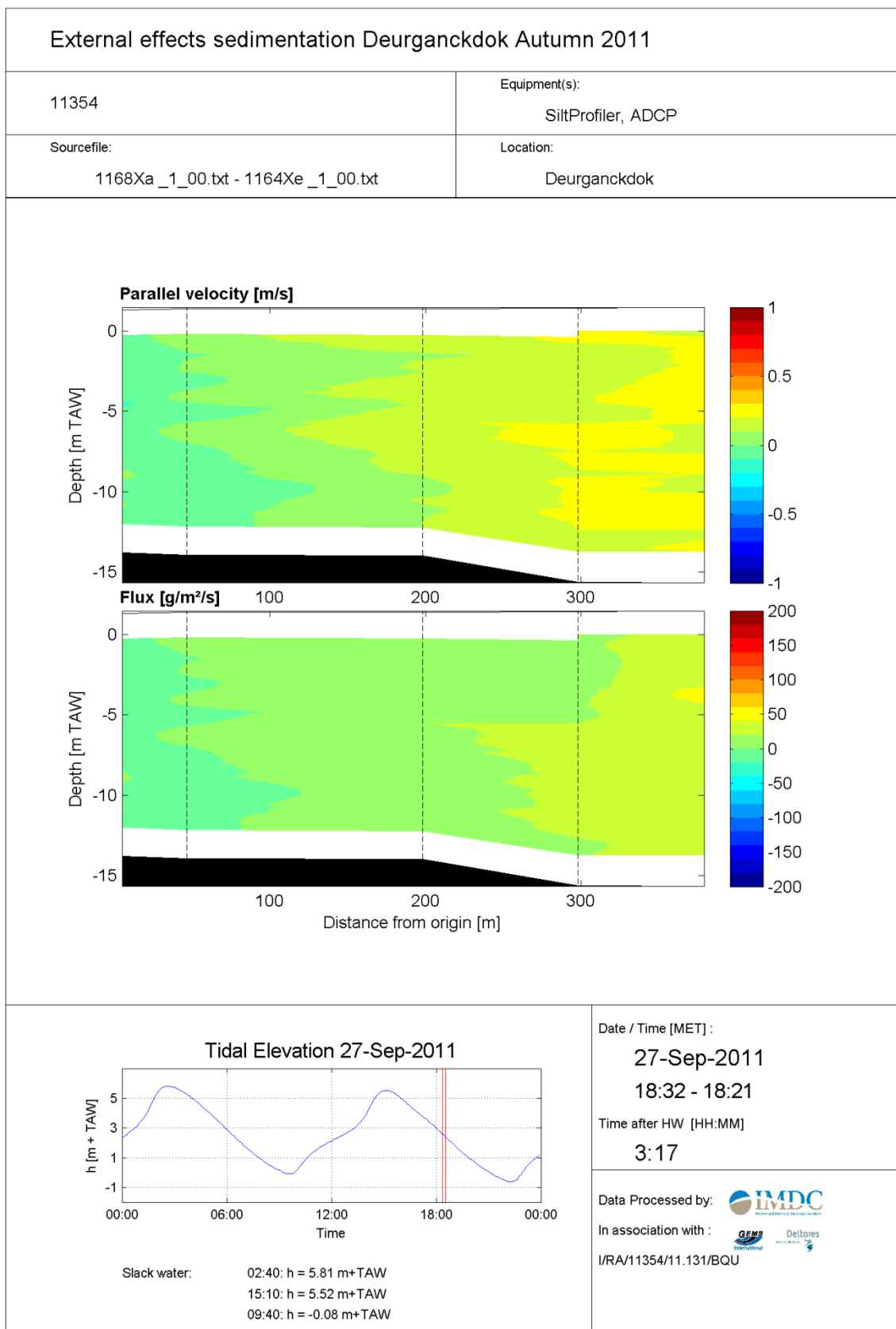




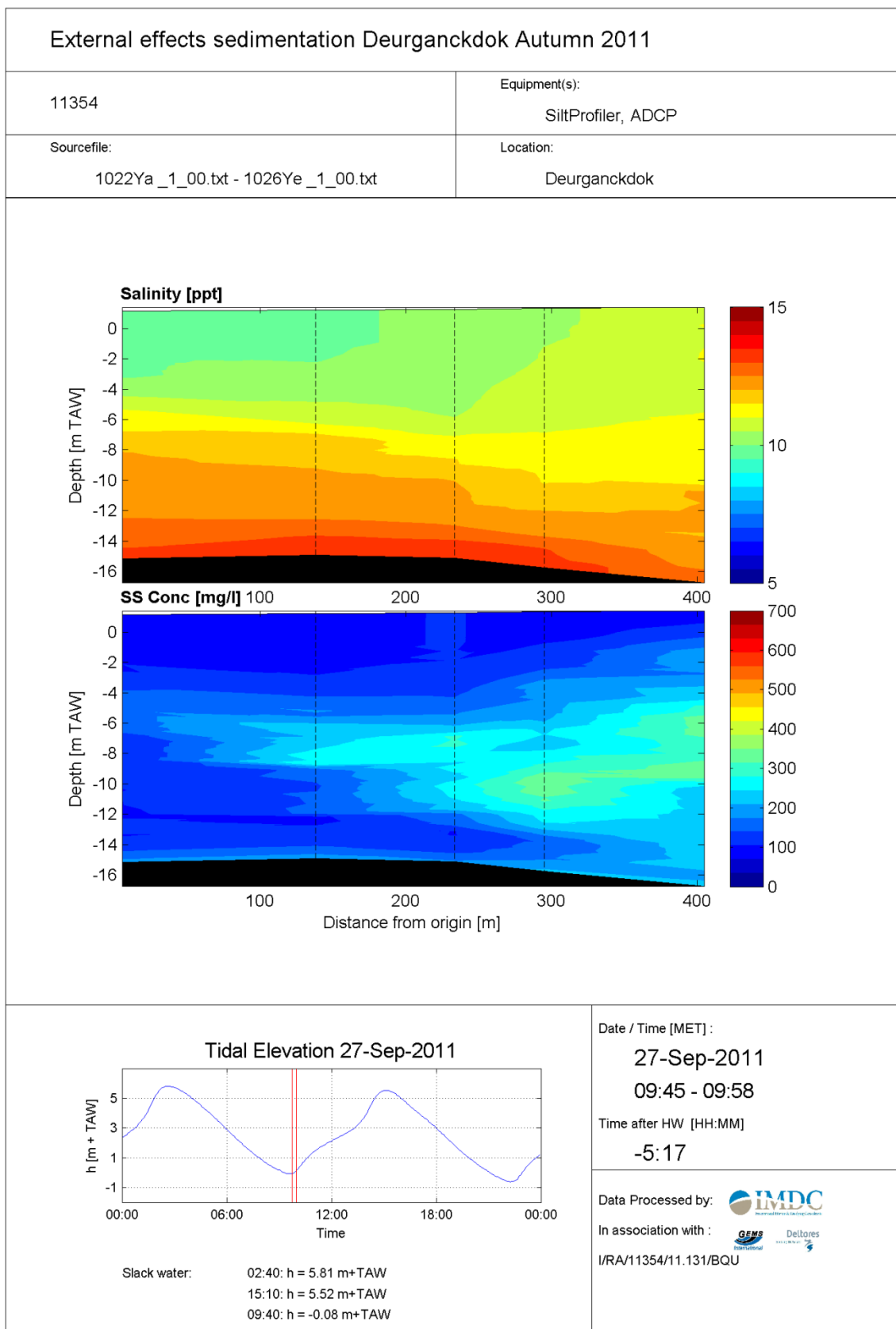


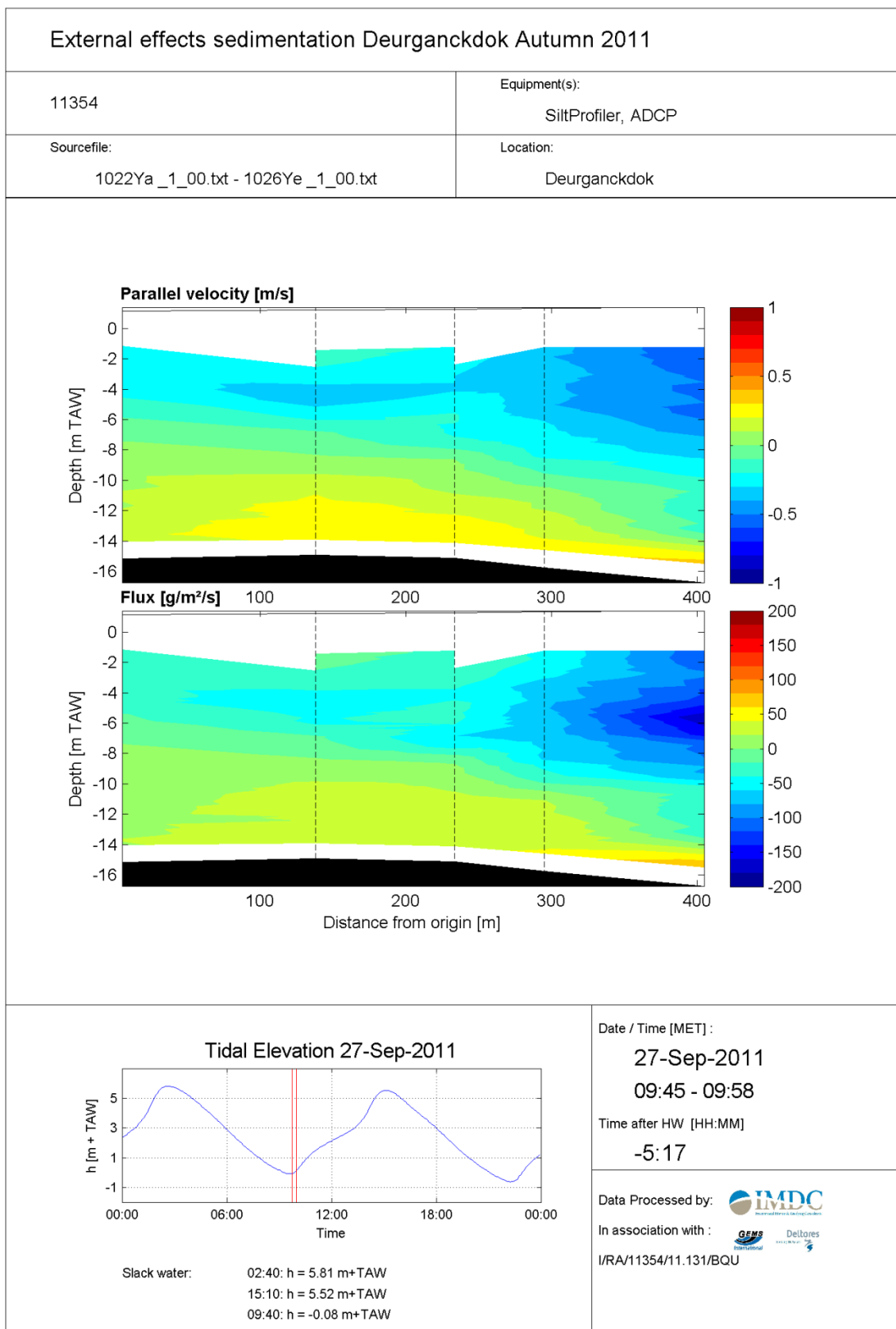


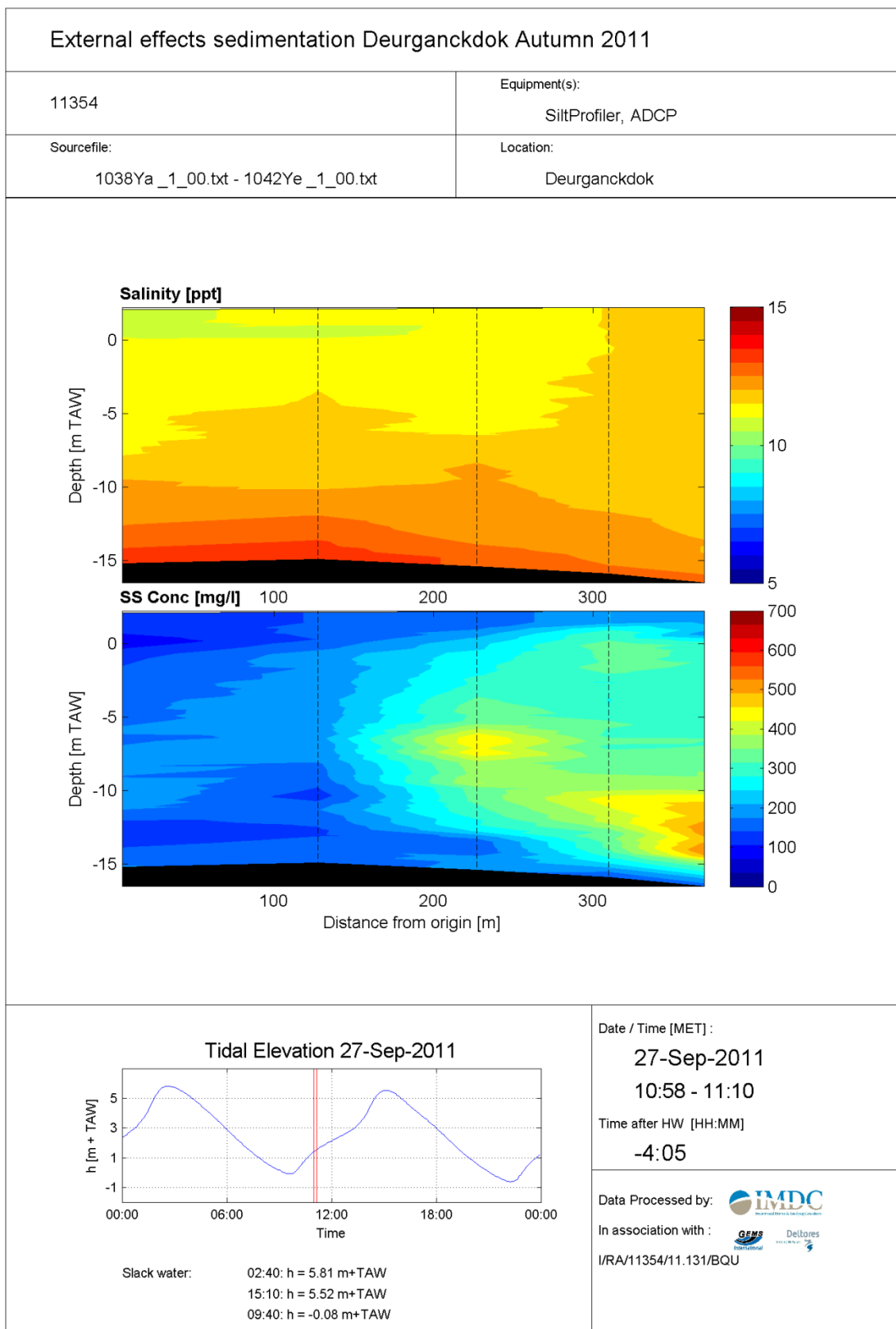


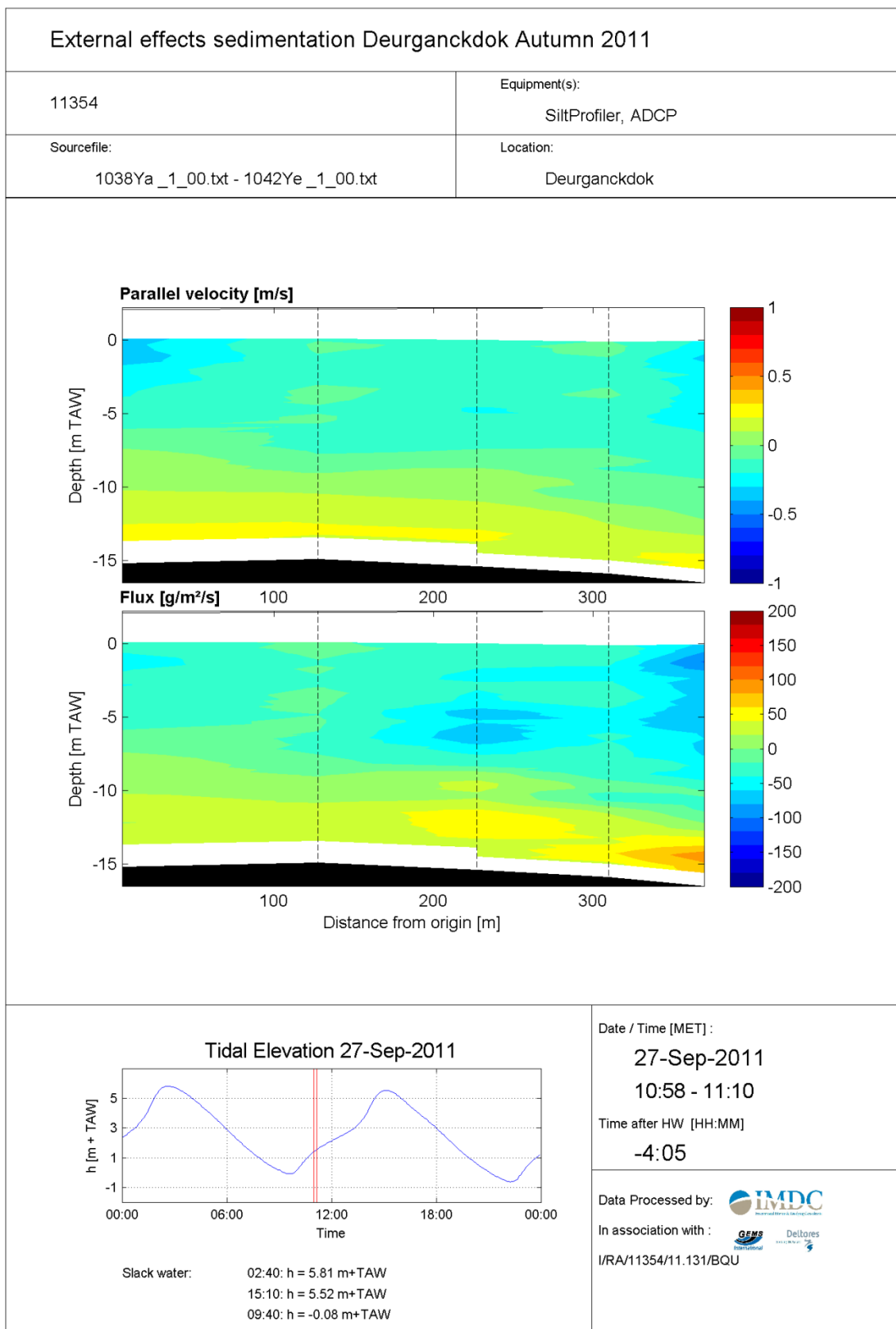


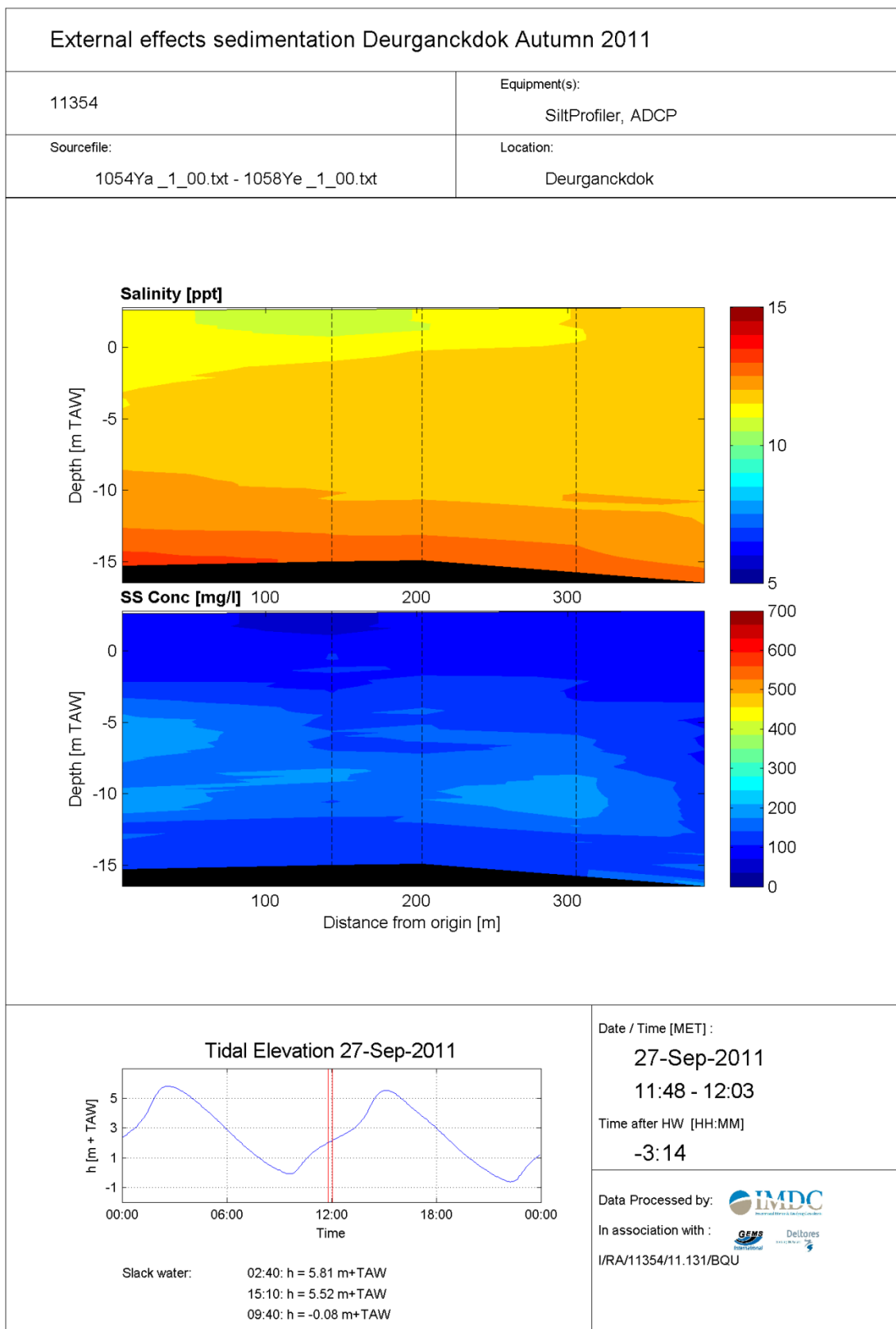
F.2 Cross-section Y

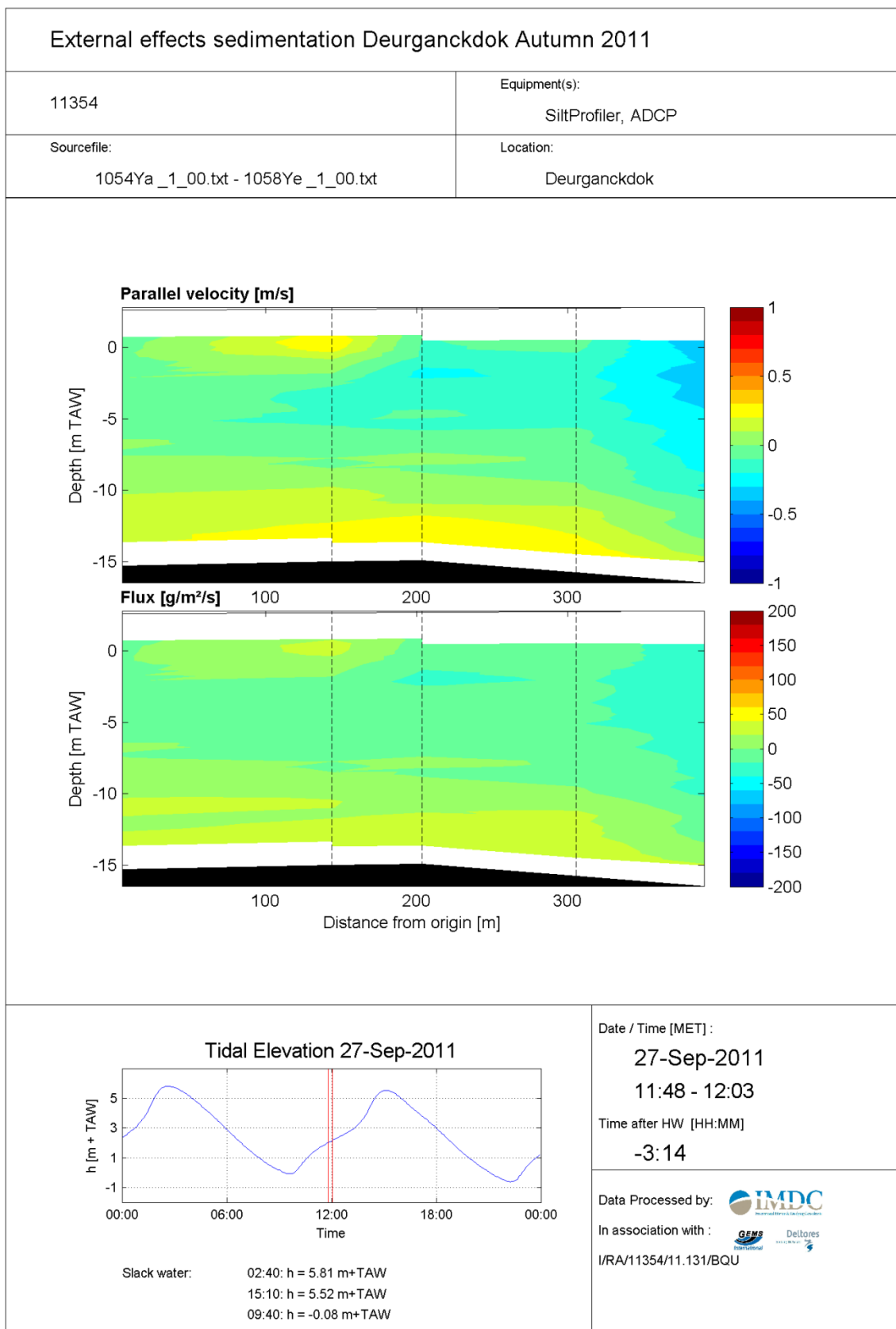


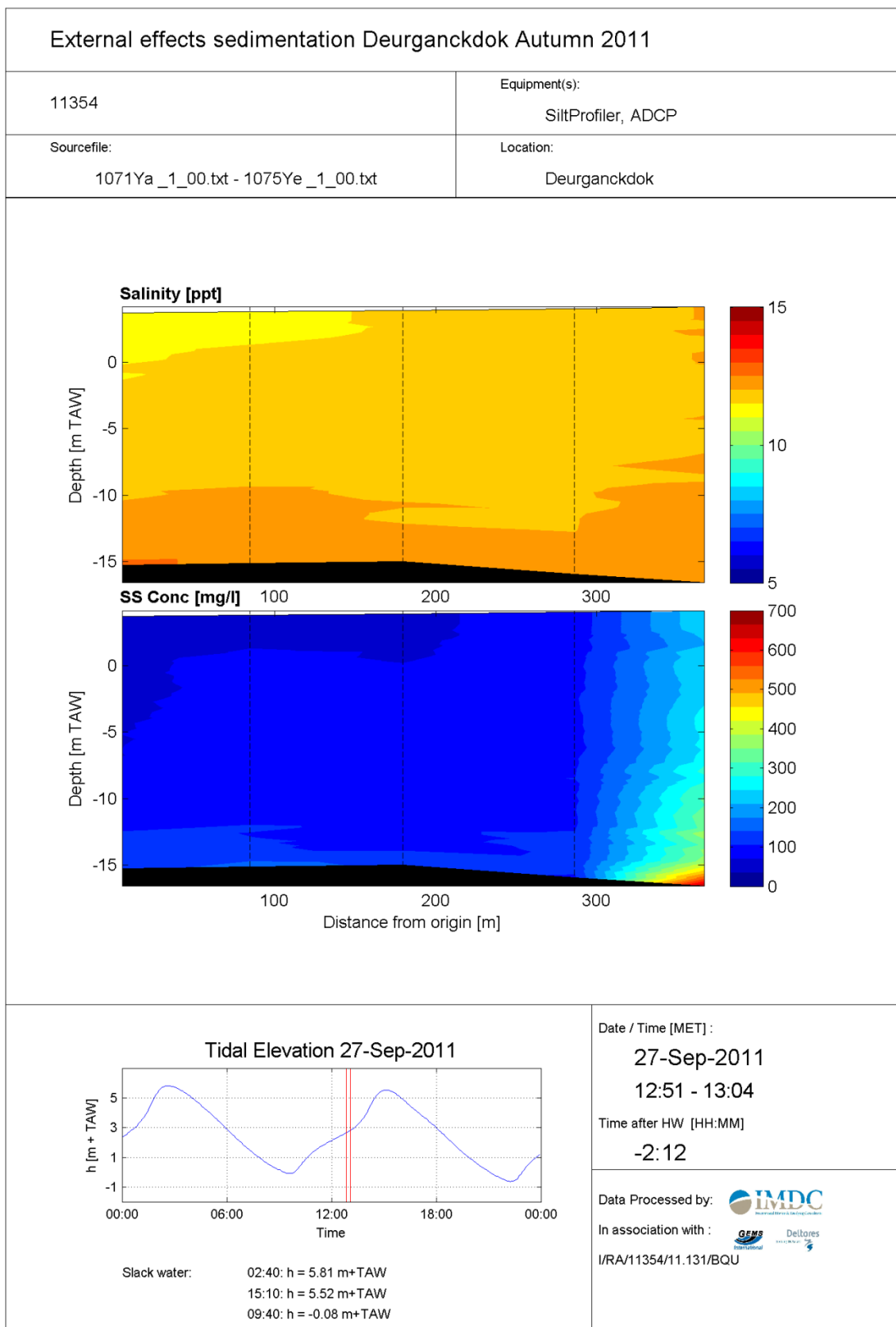


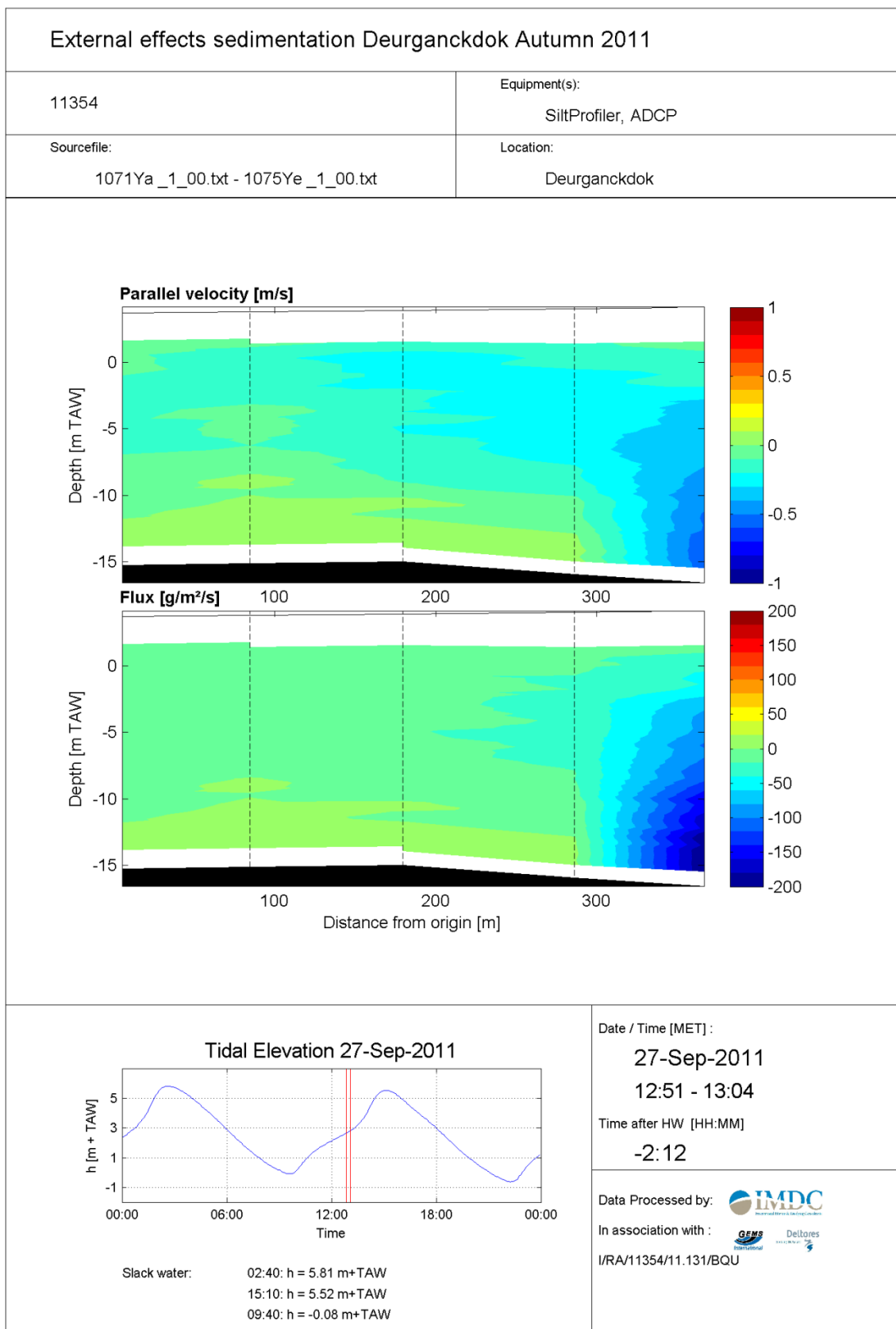


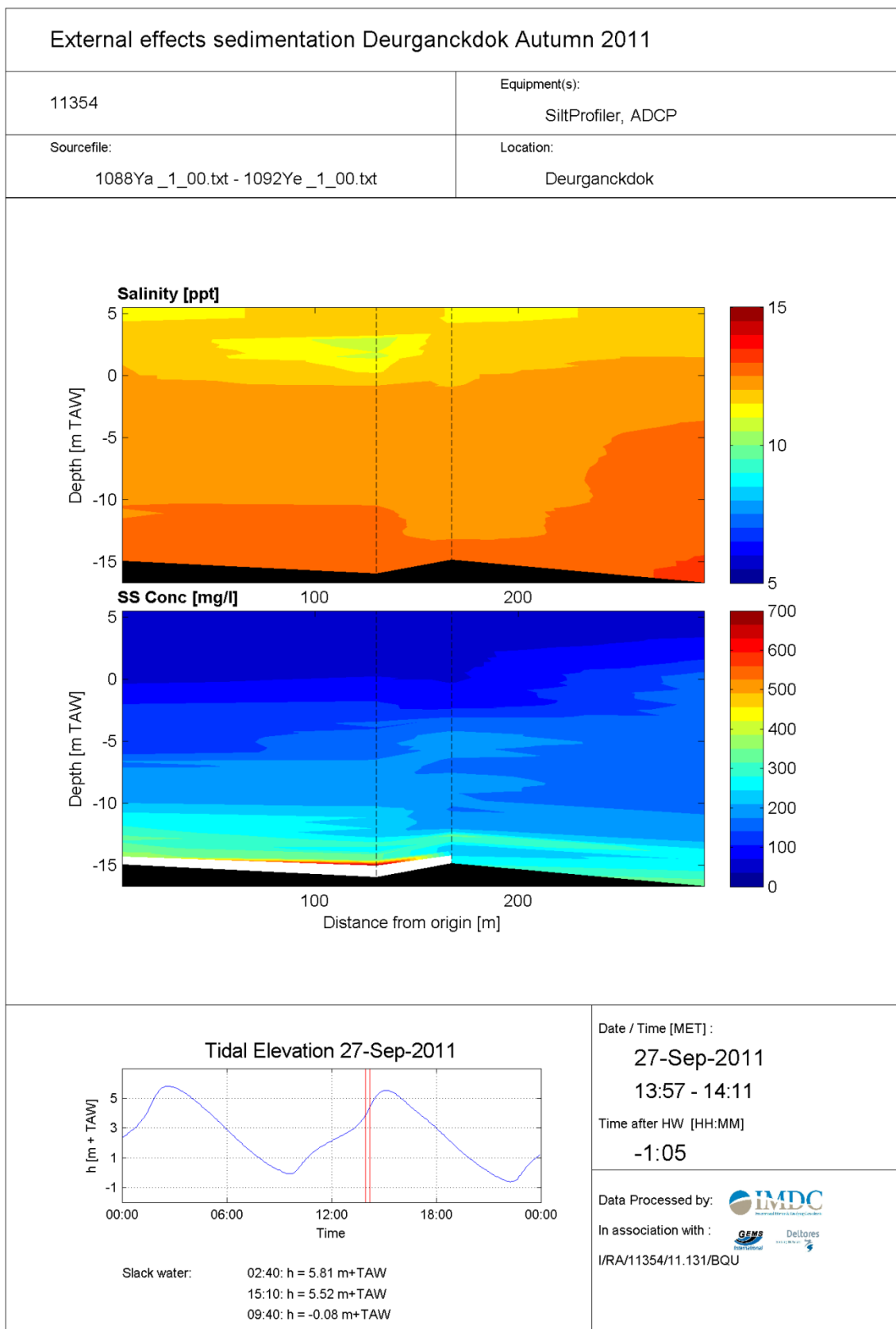


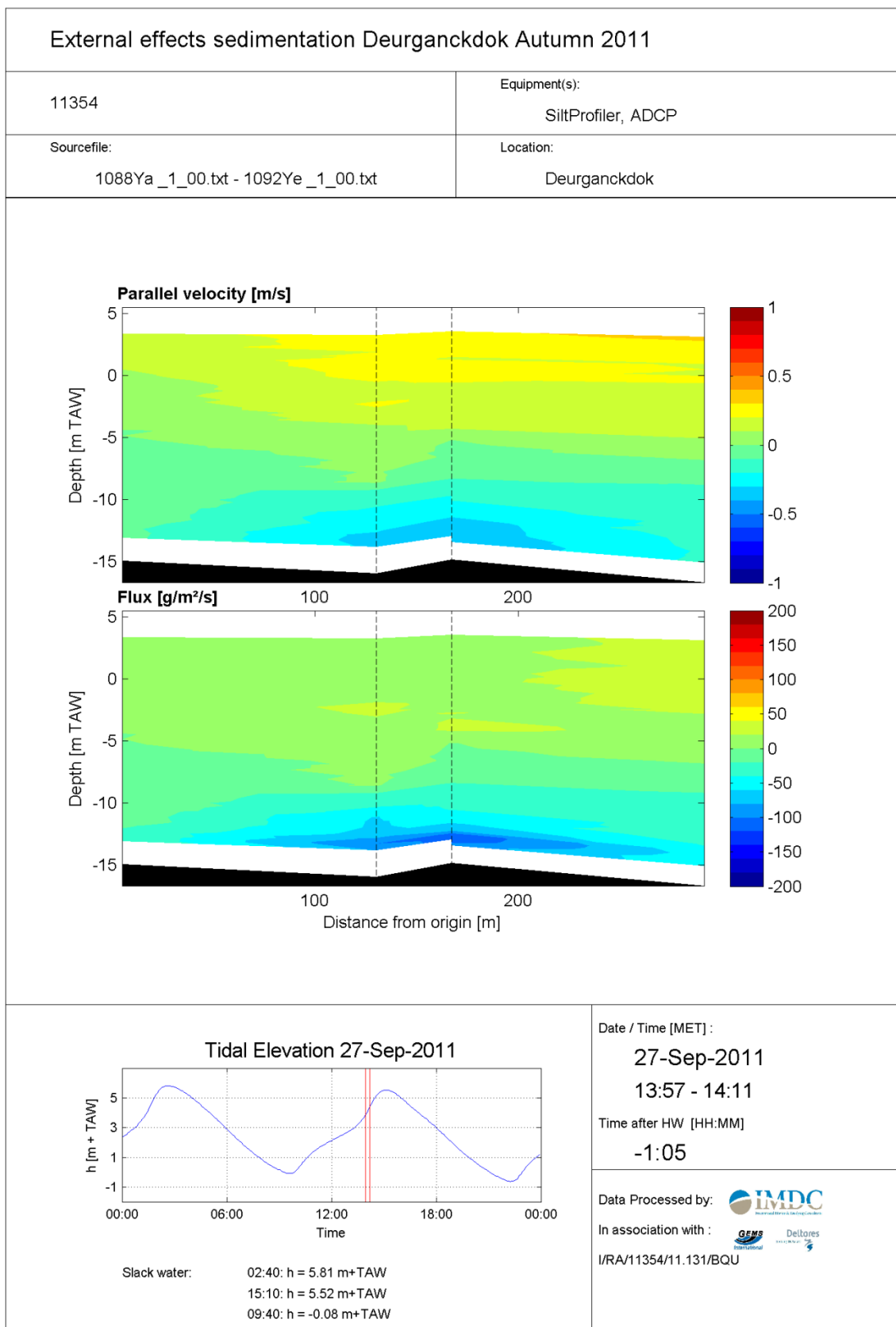


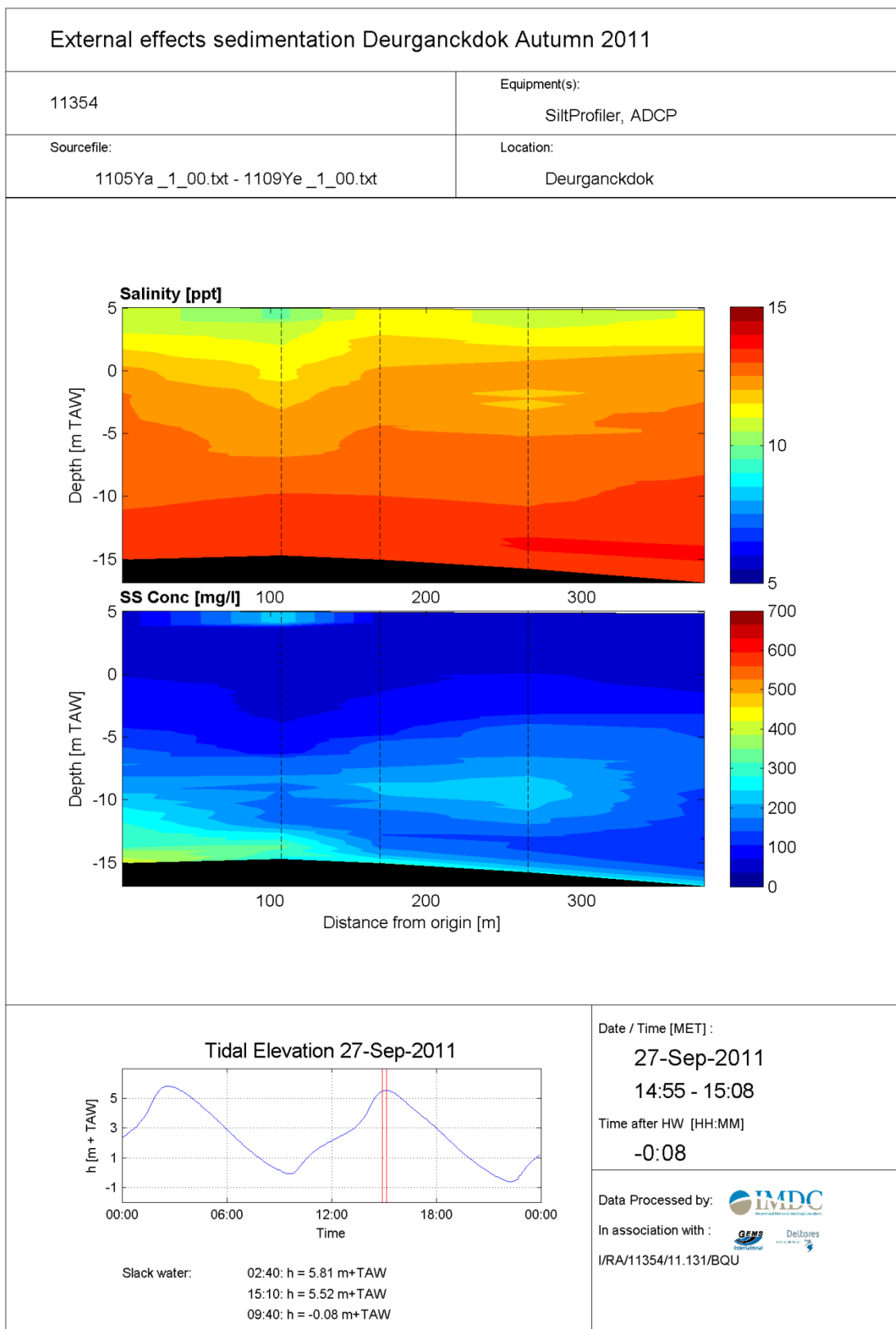


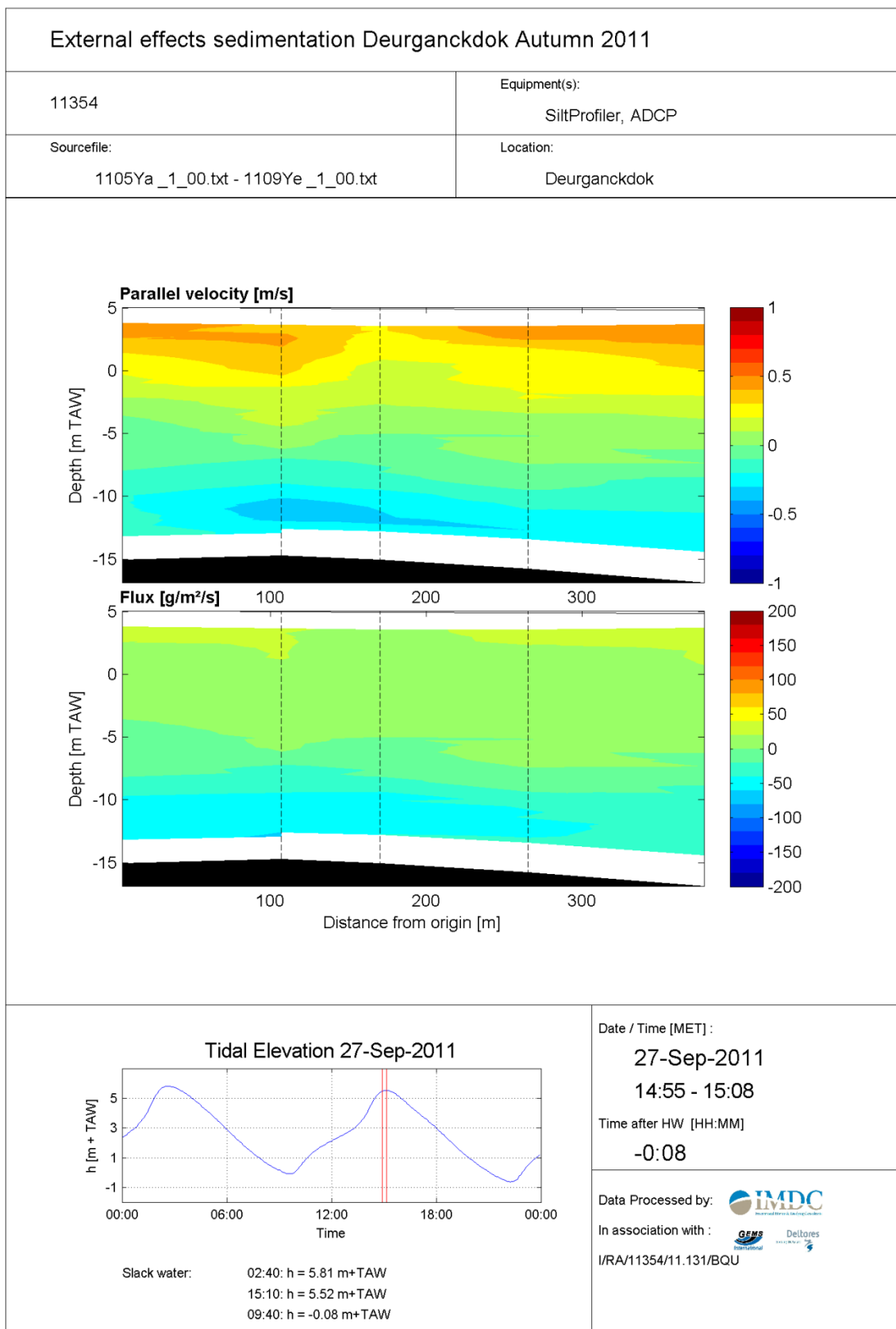


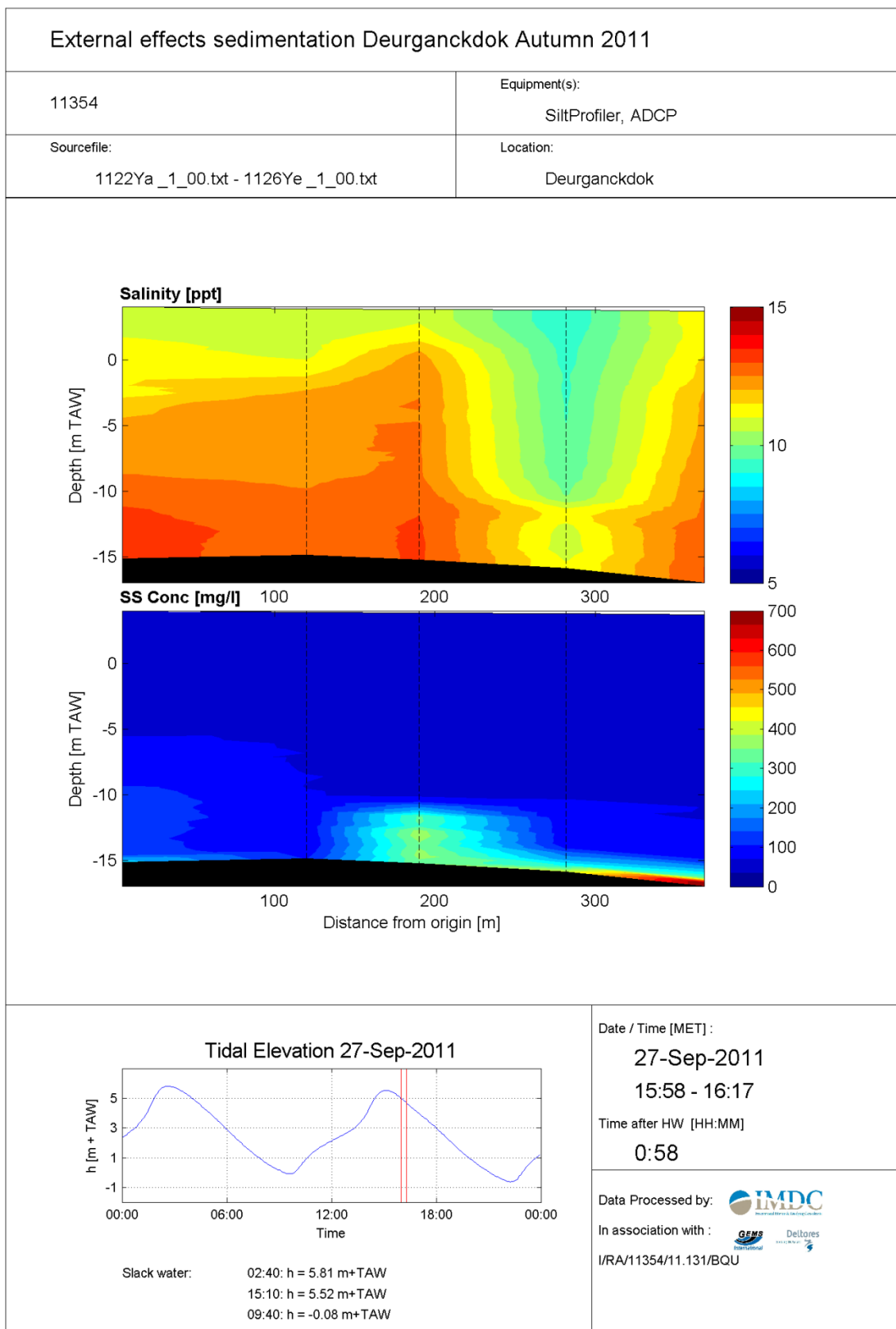


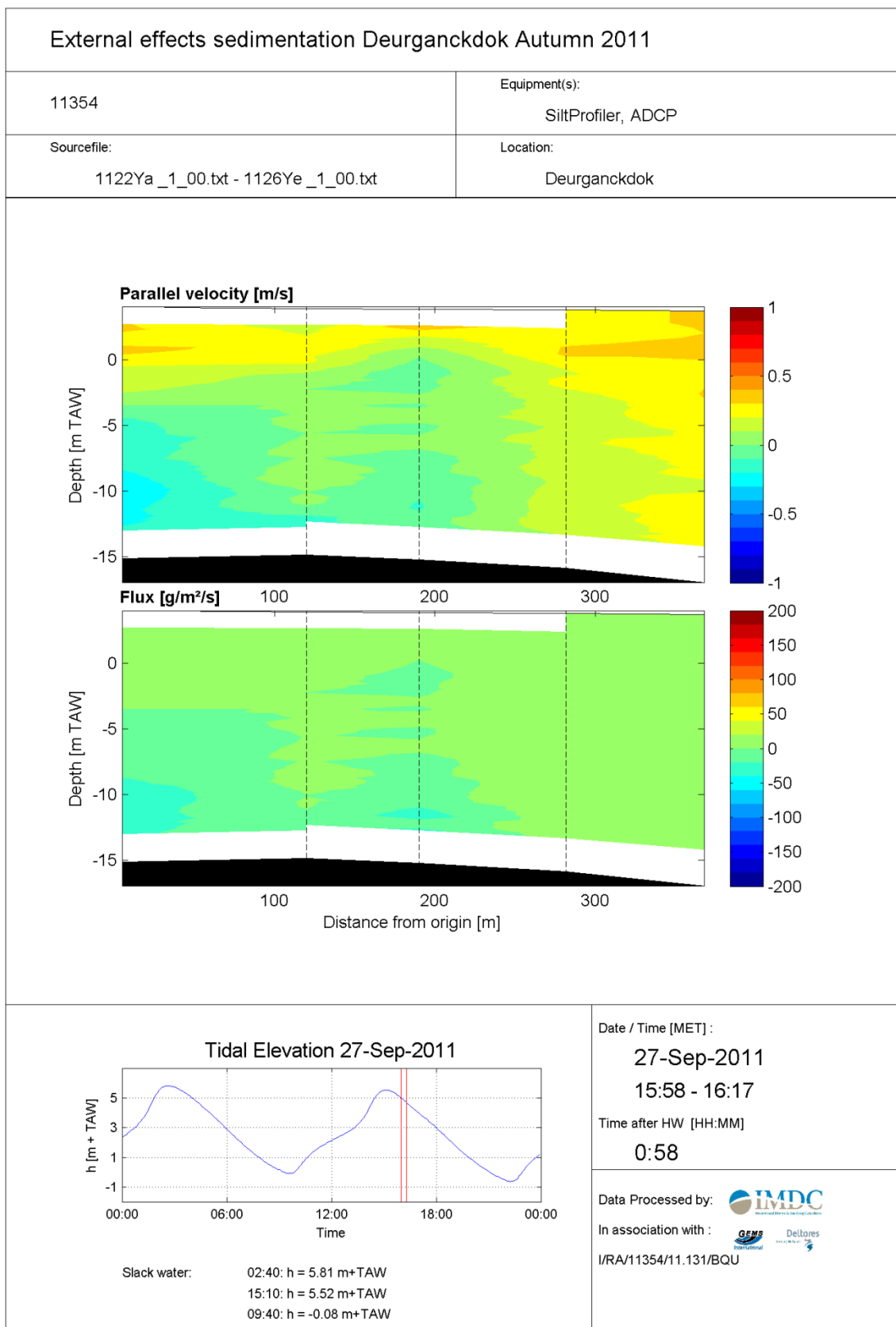


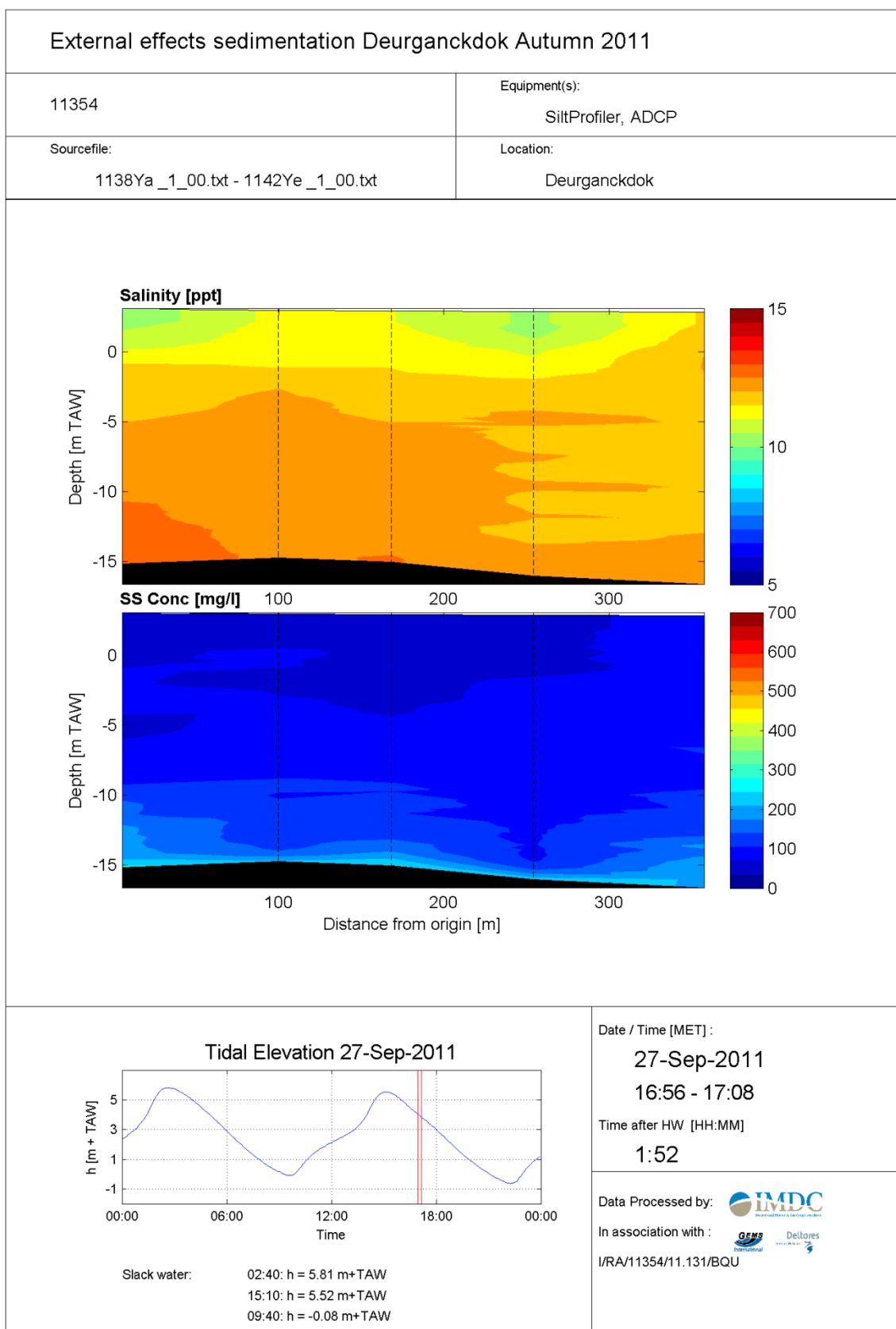


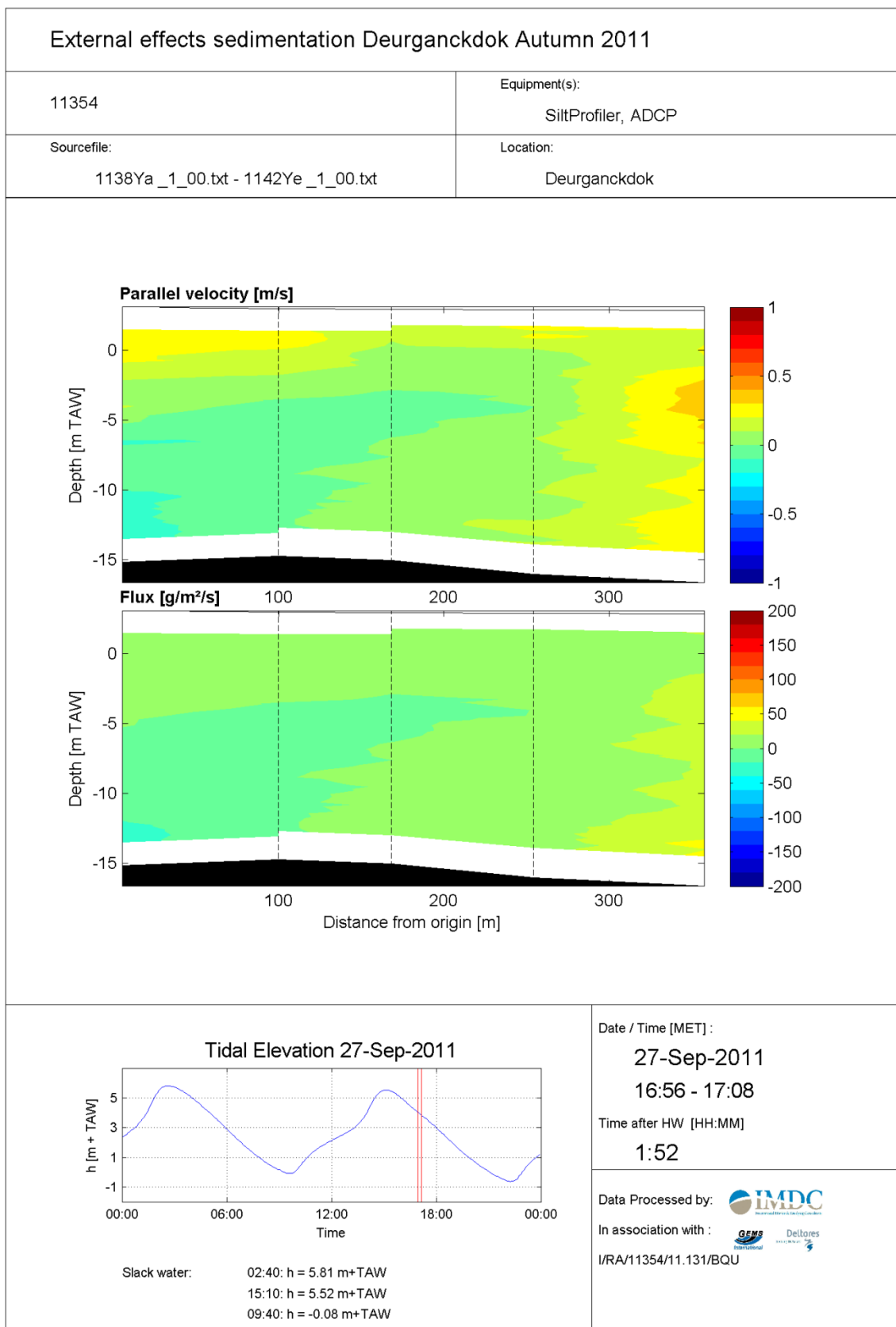


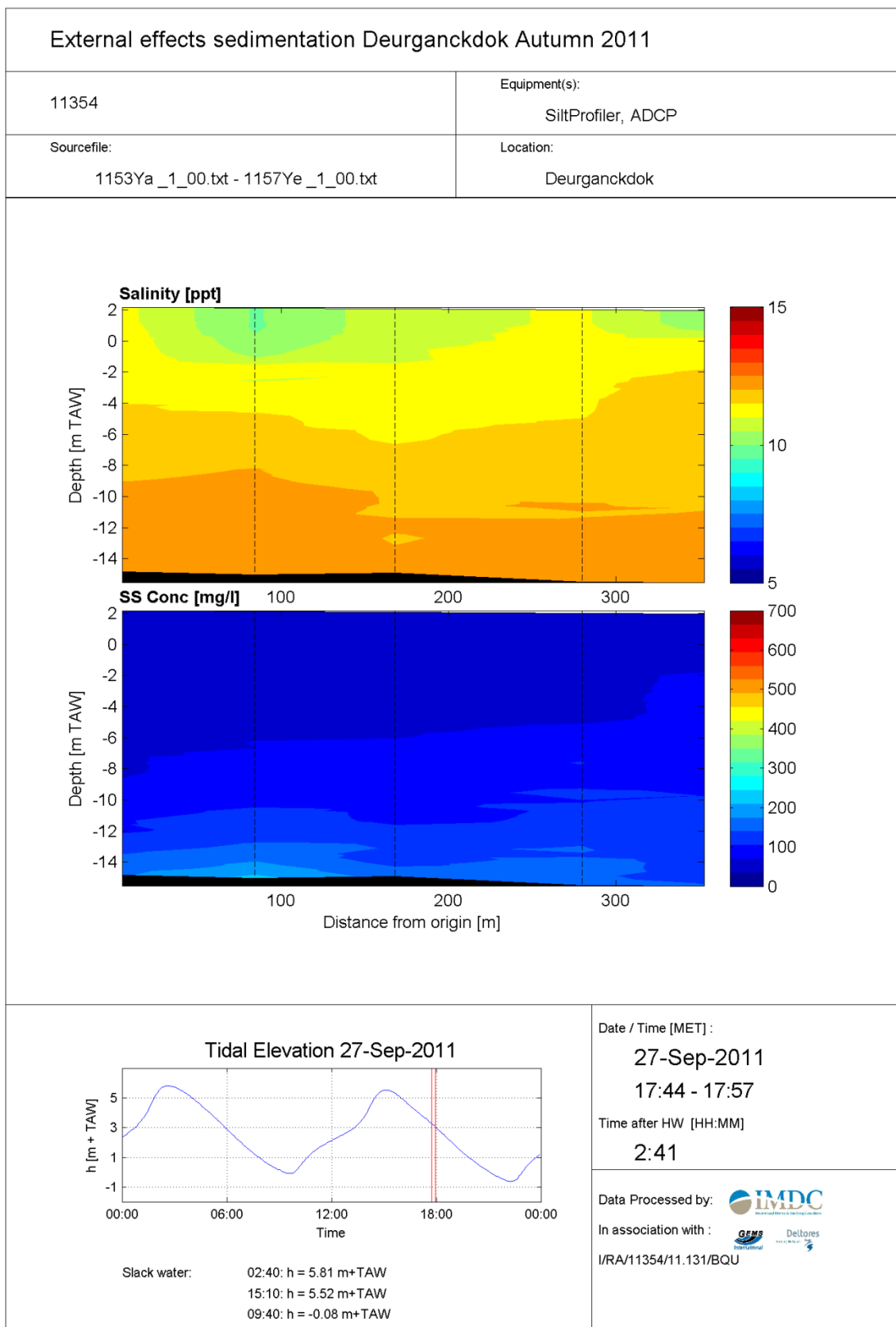


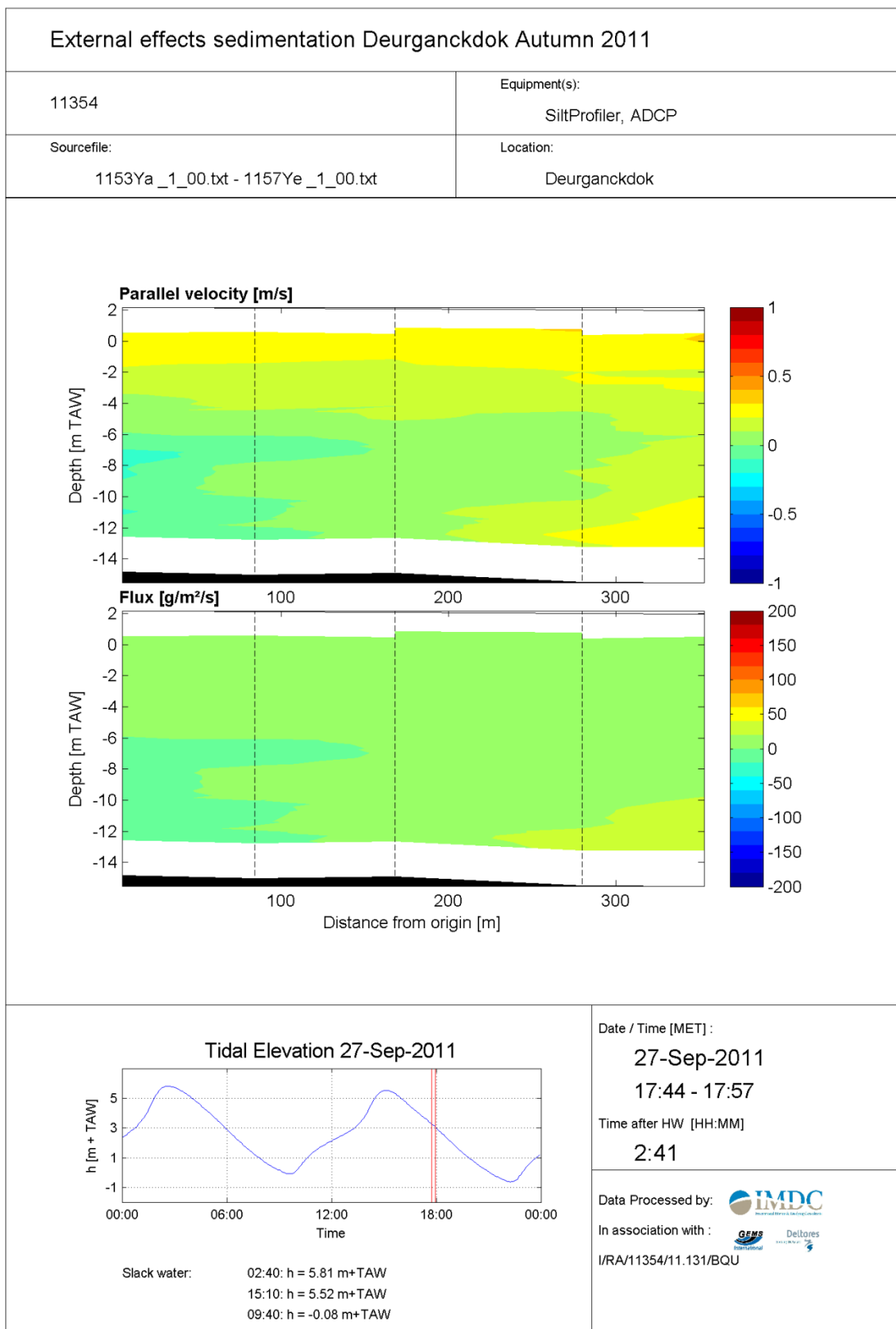


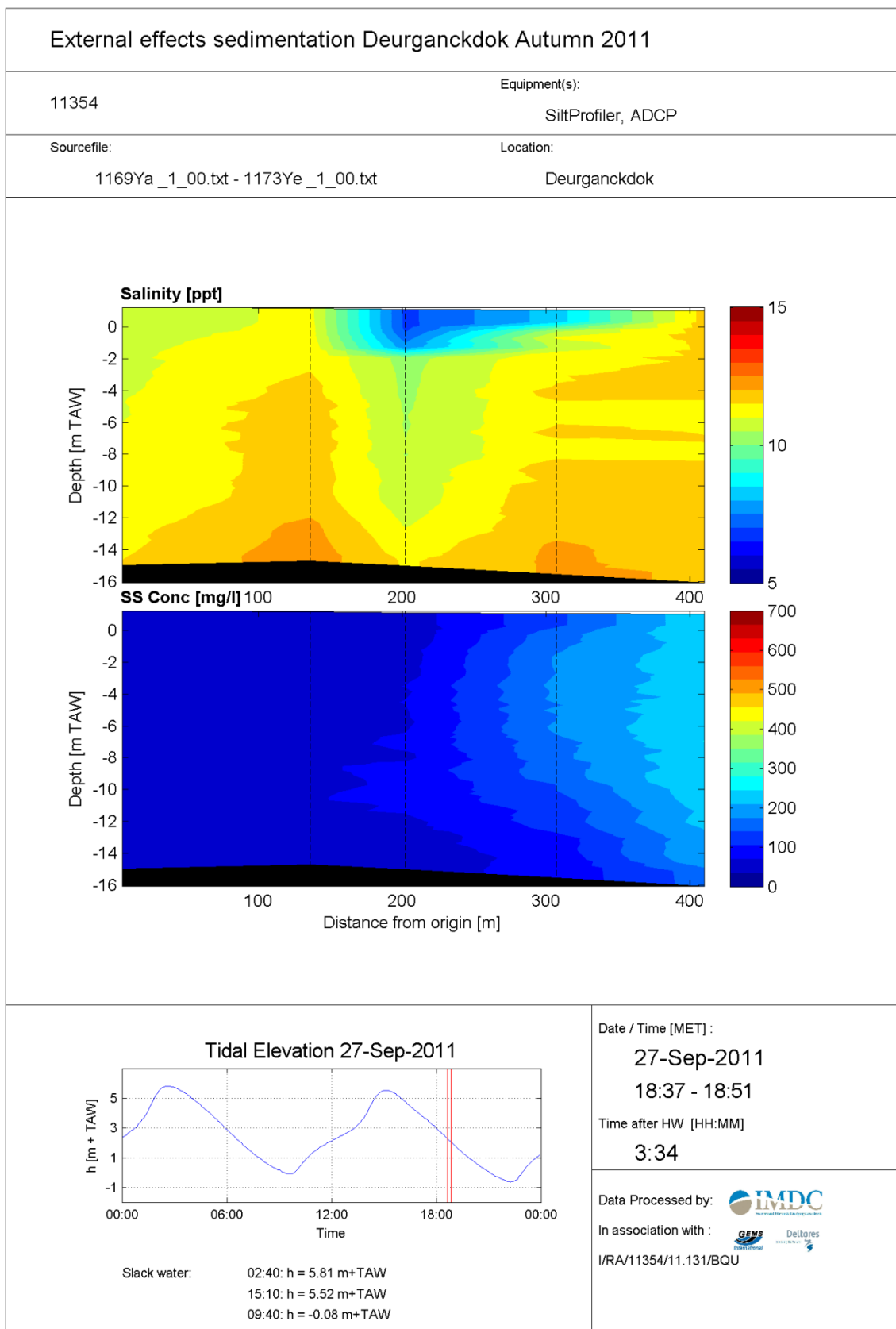


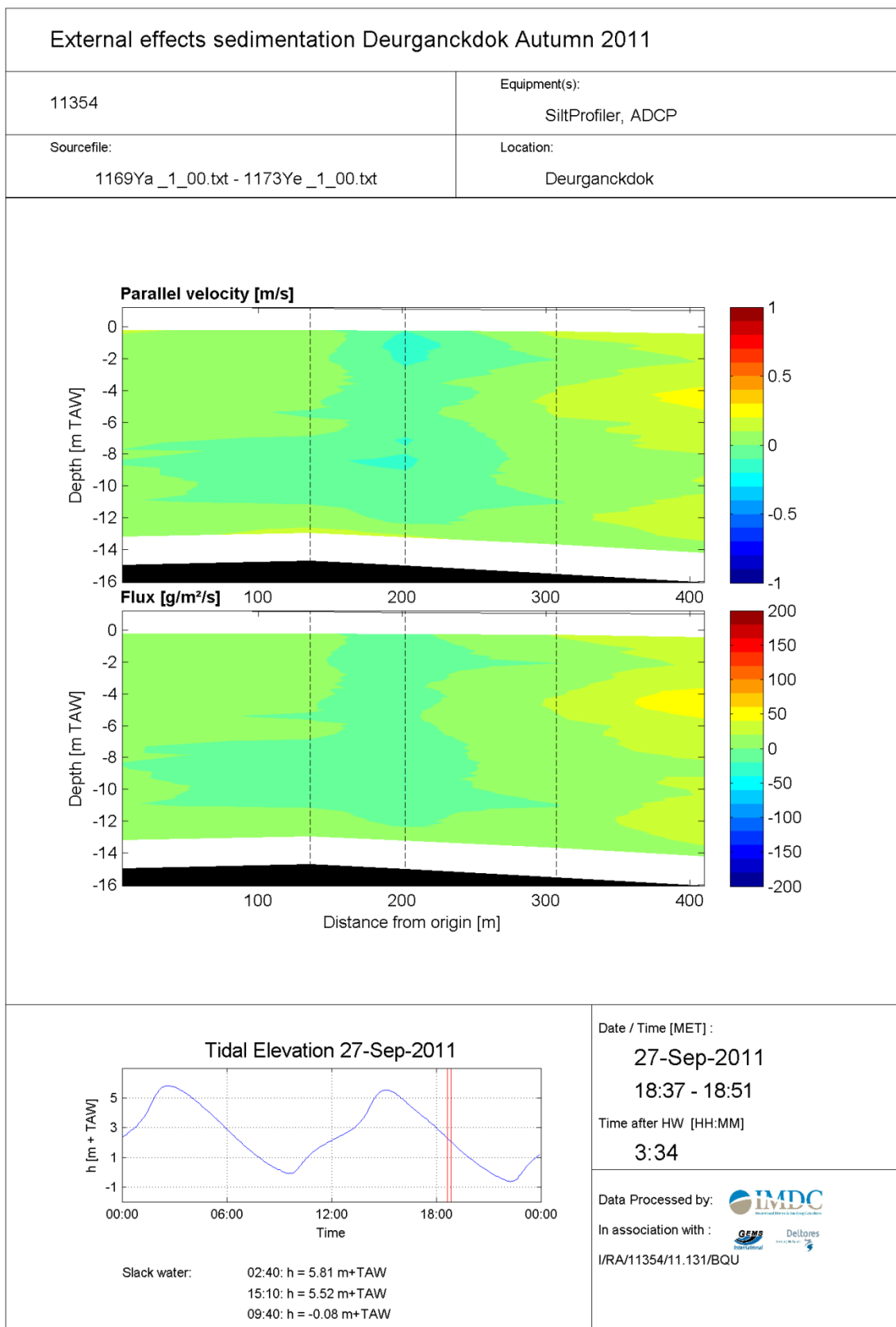




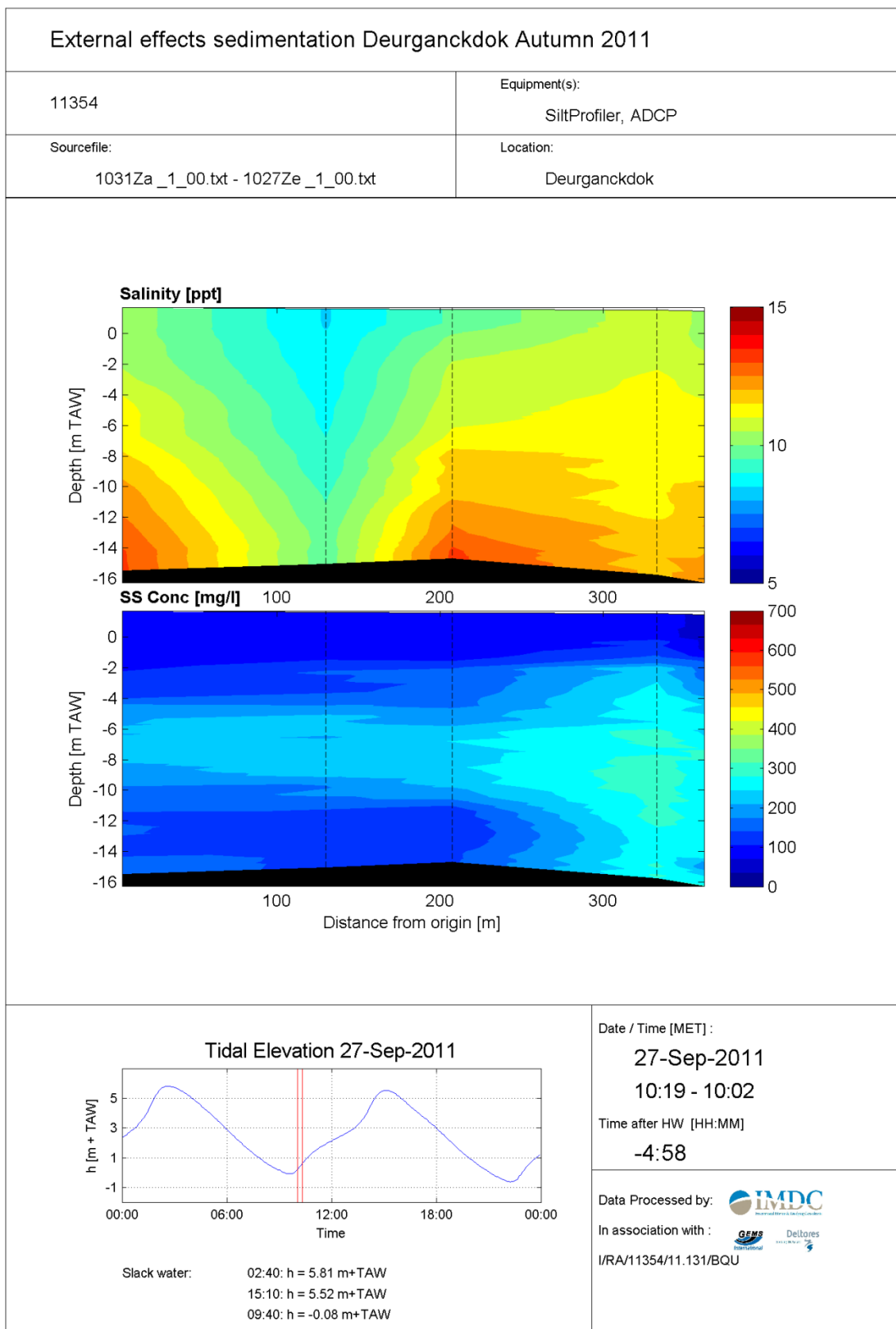


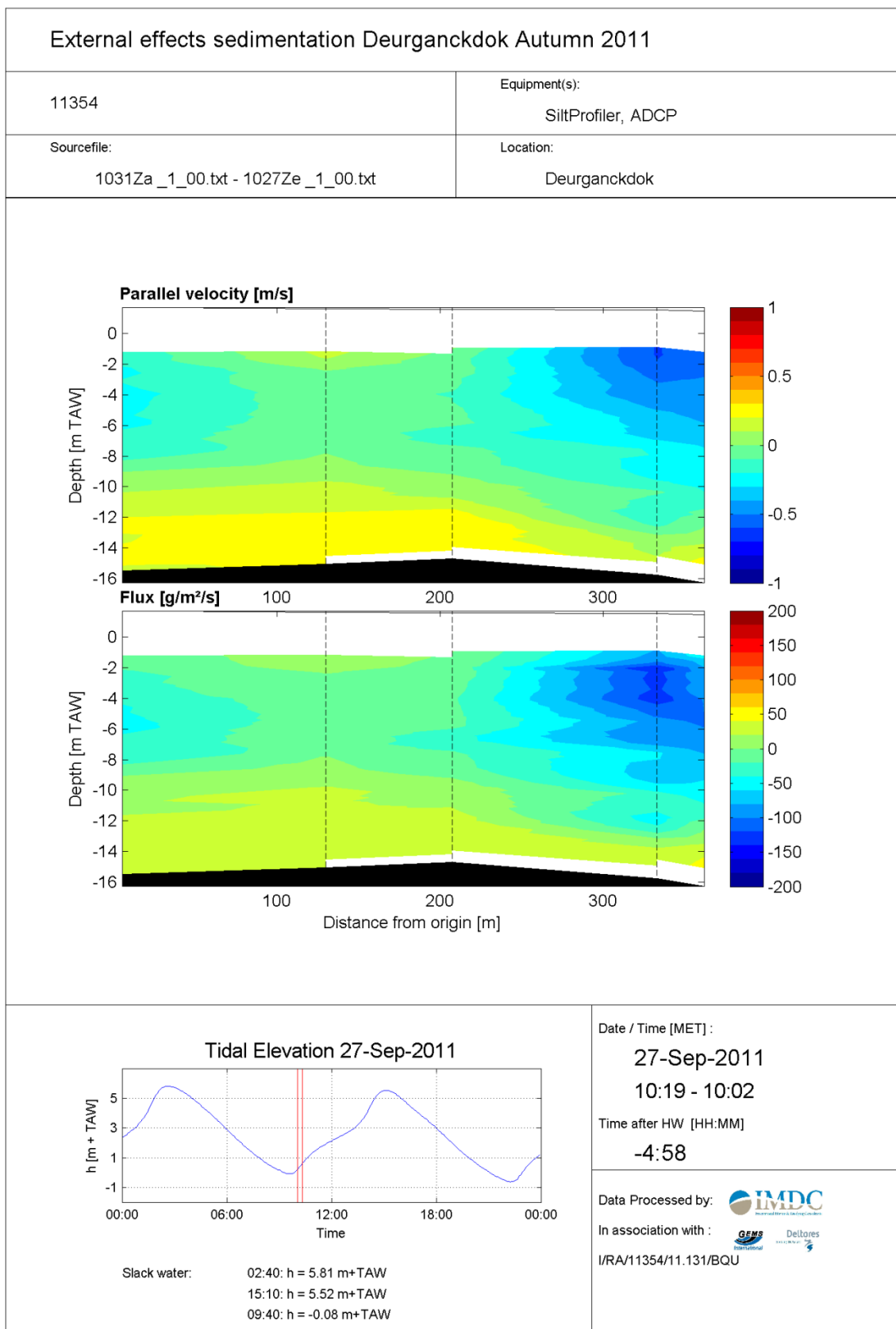


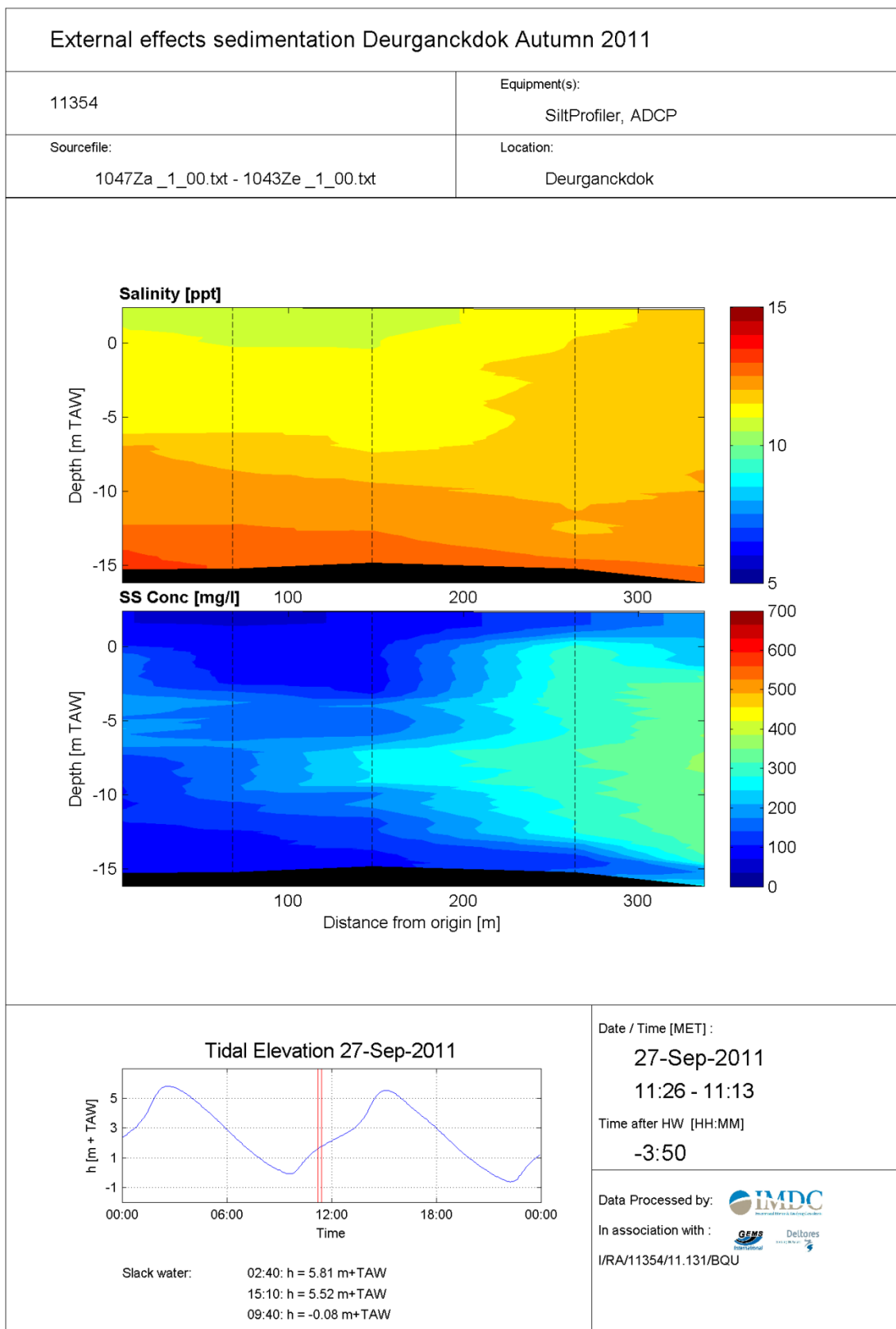


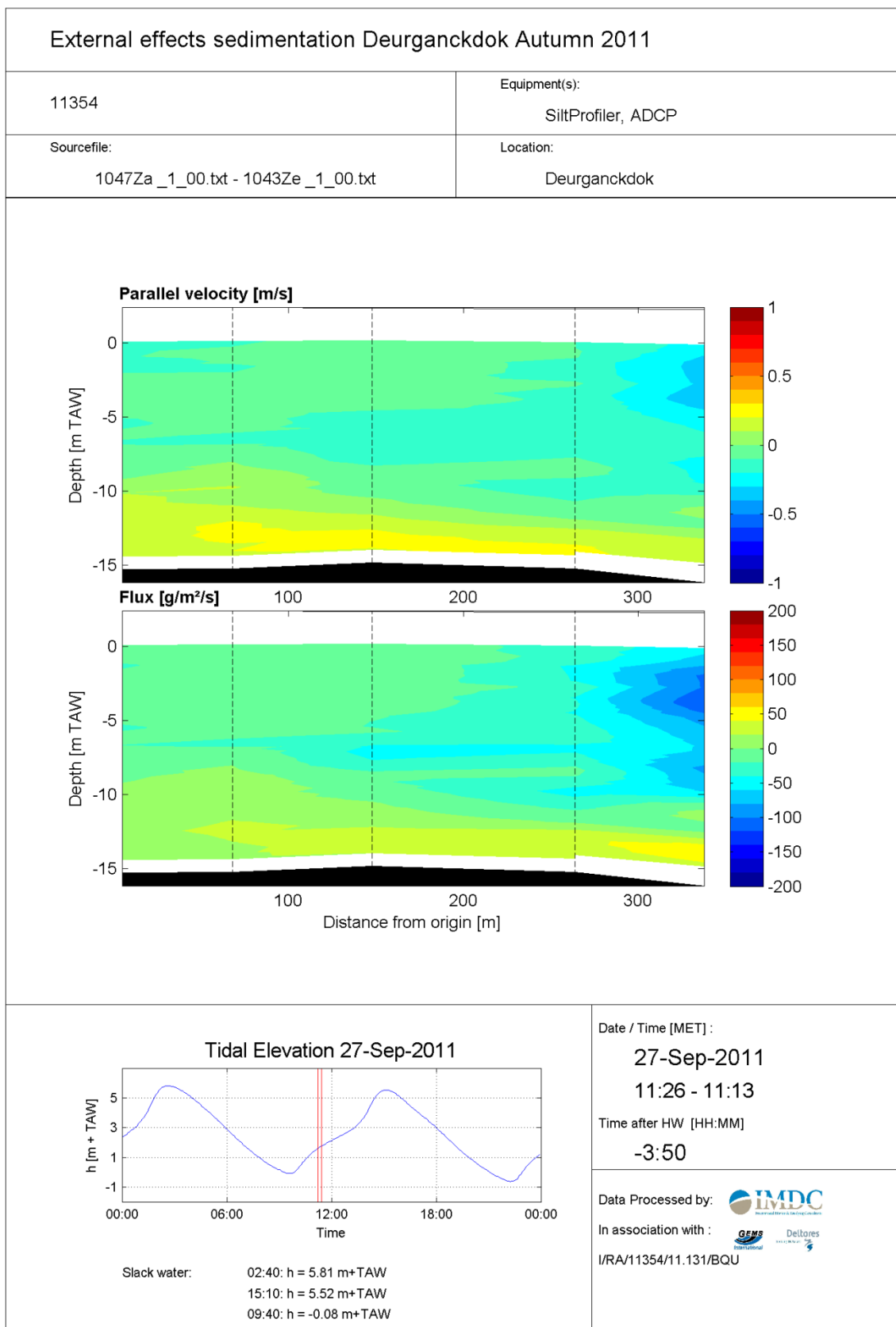


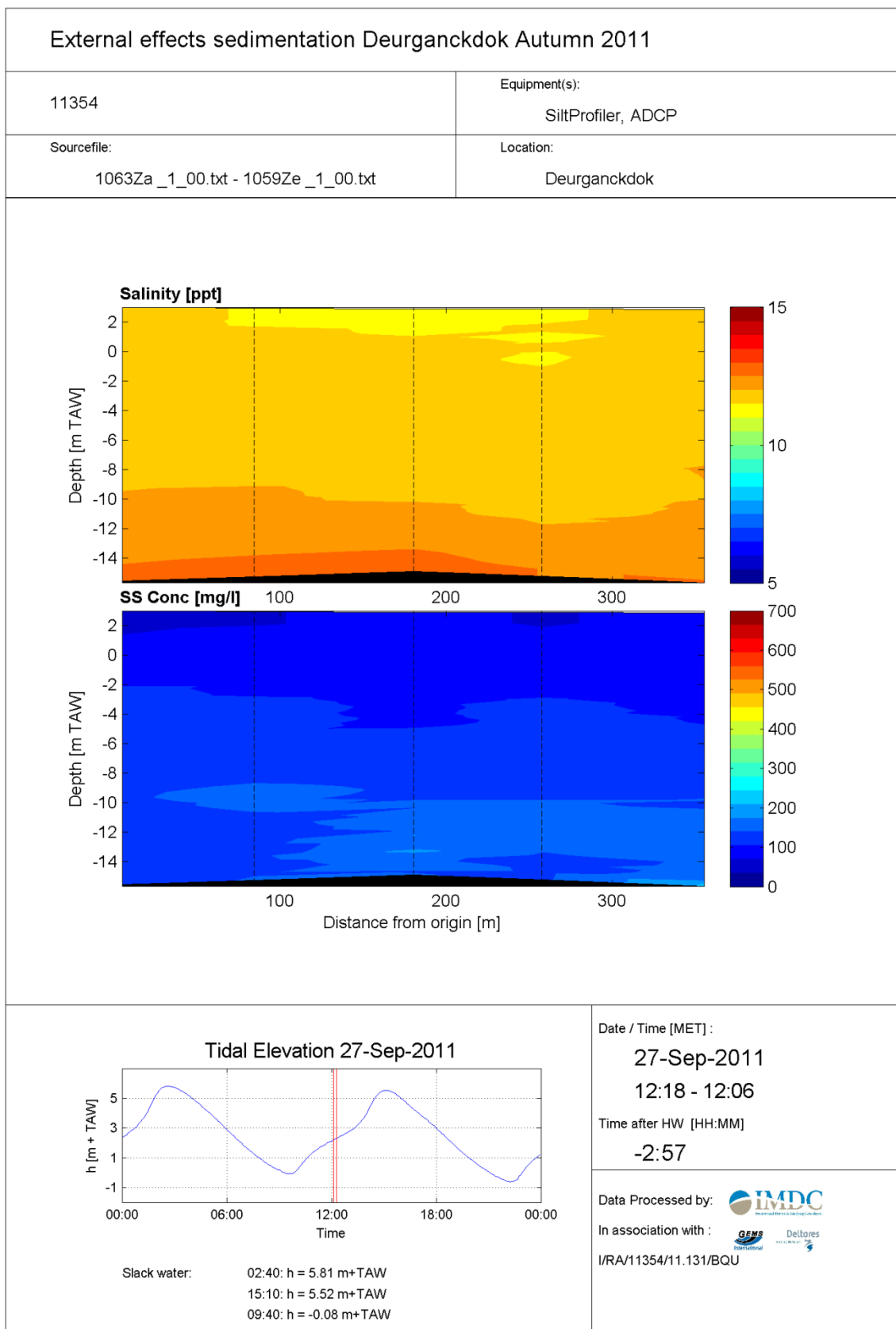
F.3 Cross-section Z

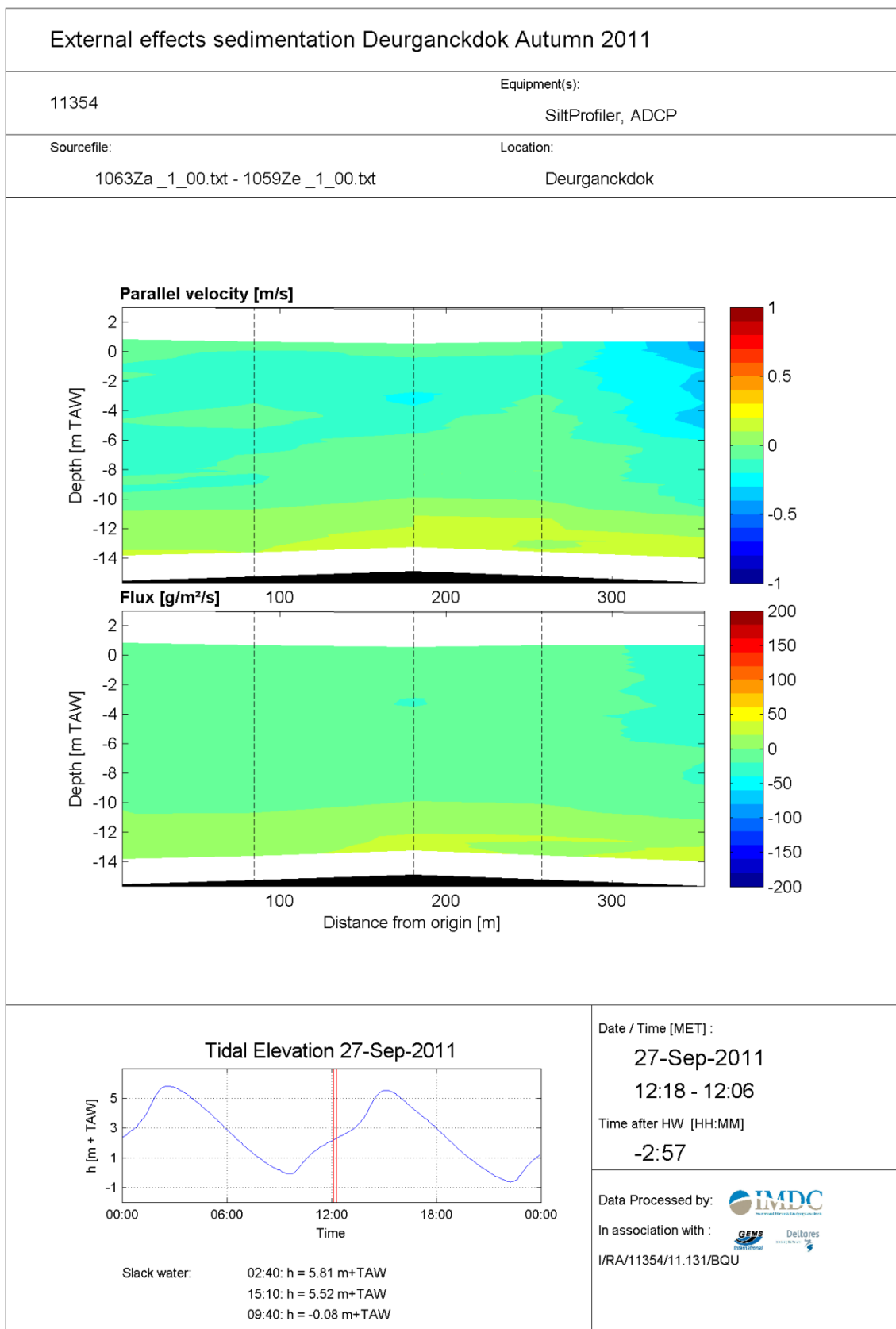


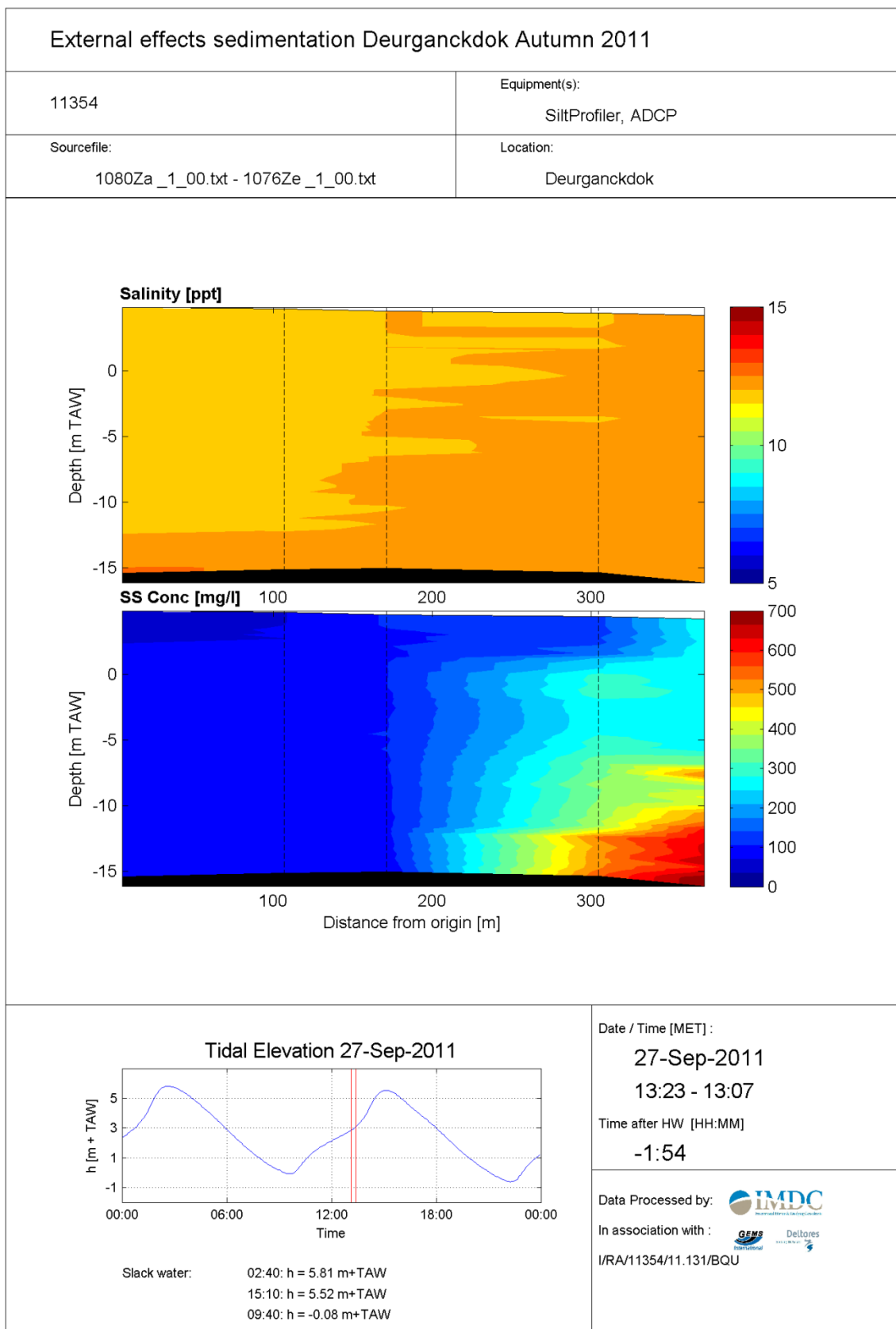


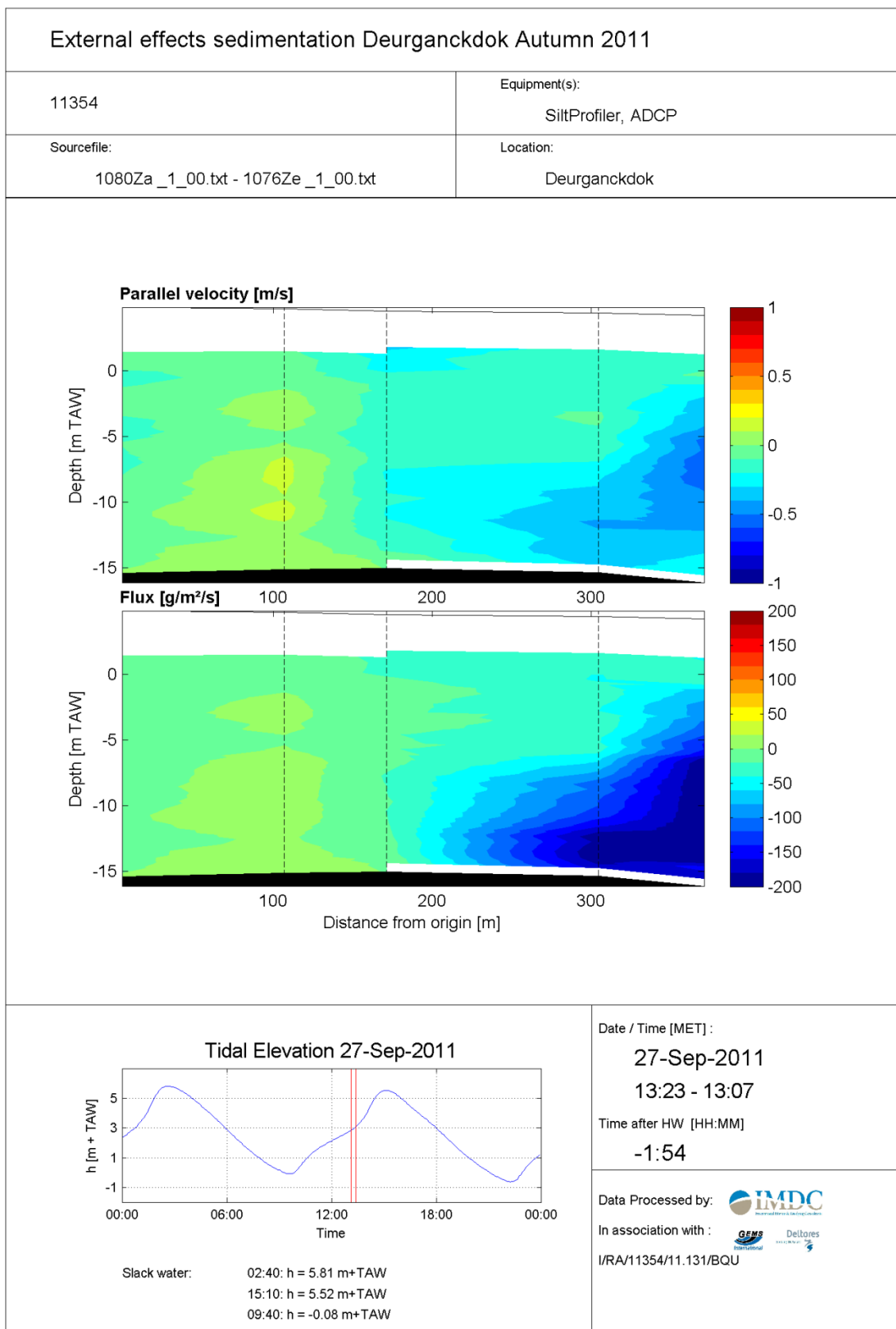


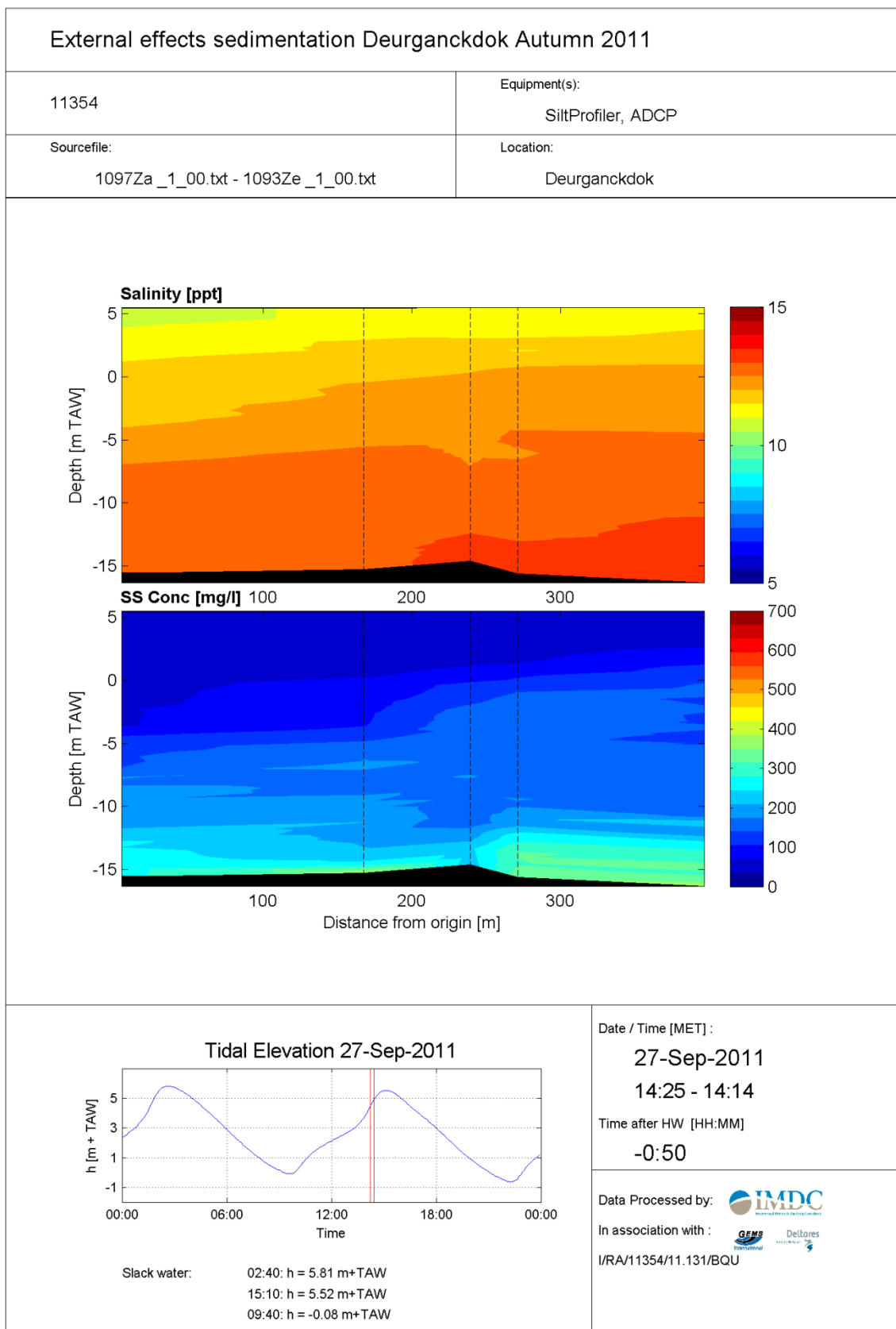


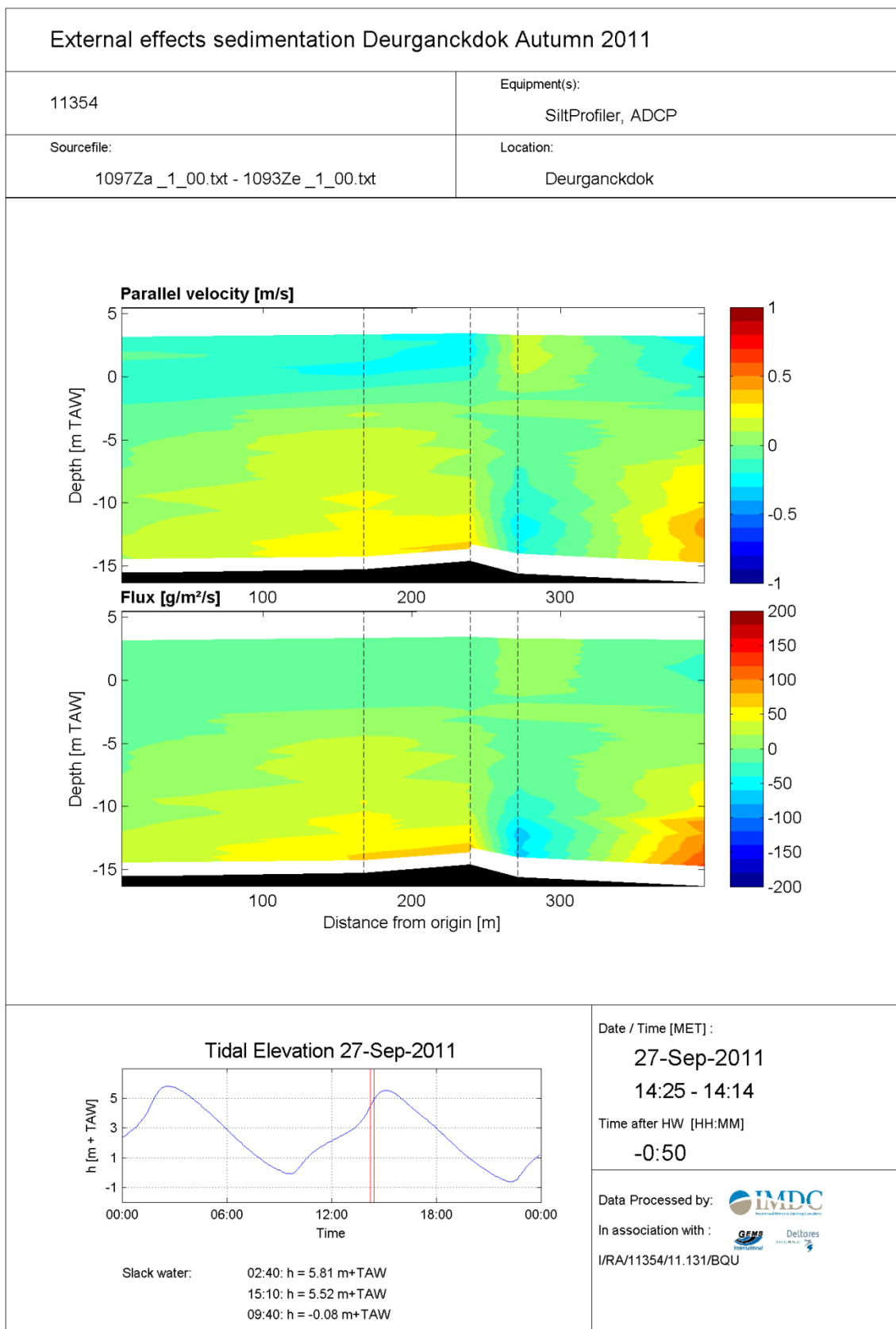


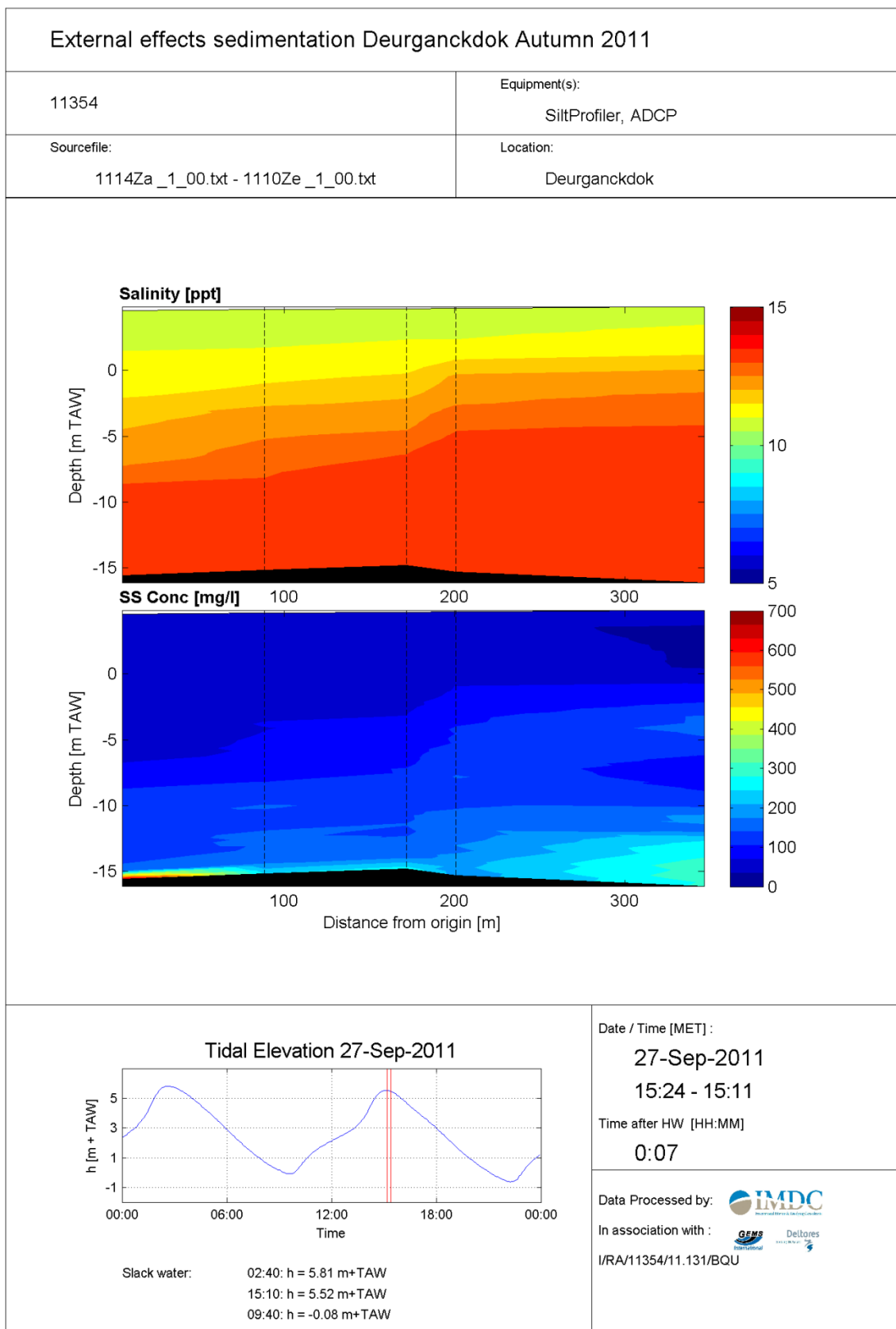


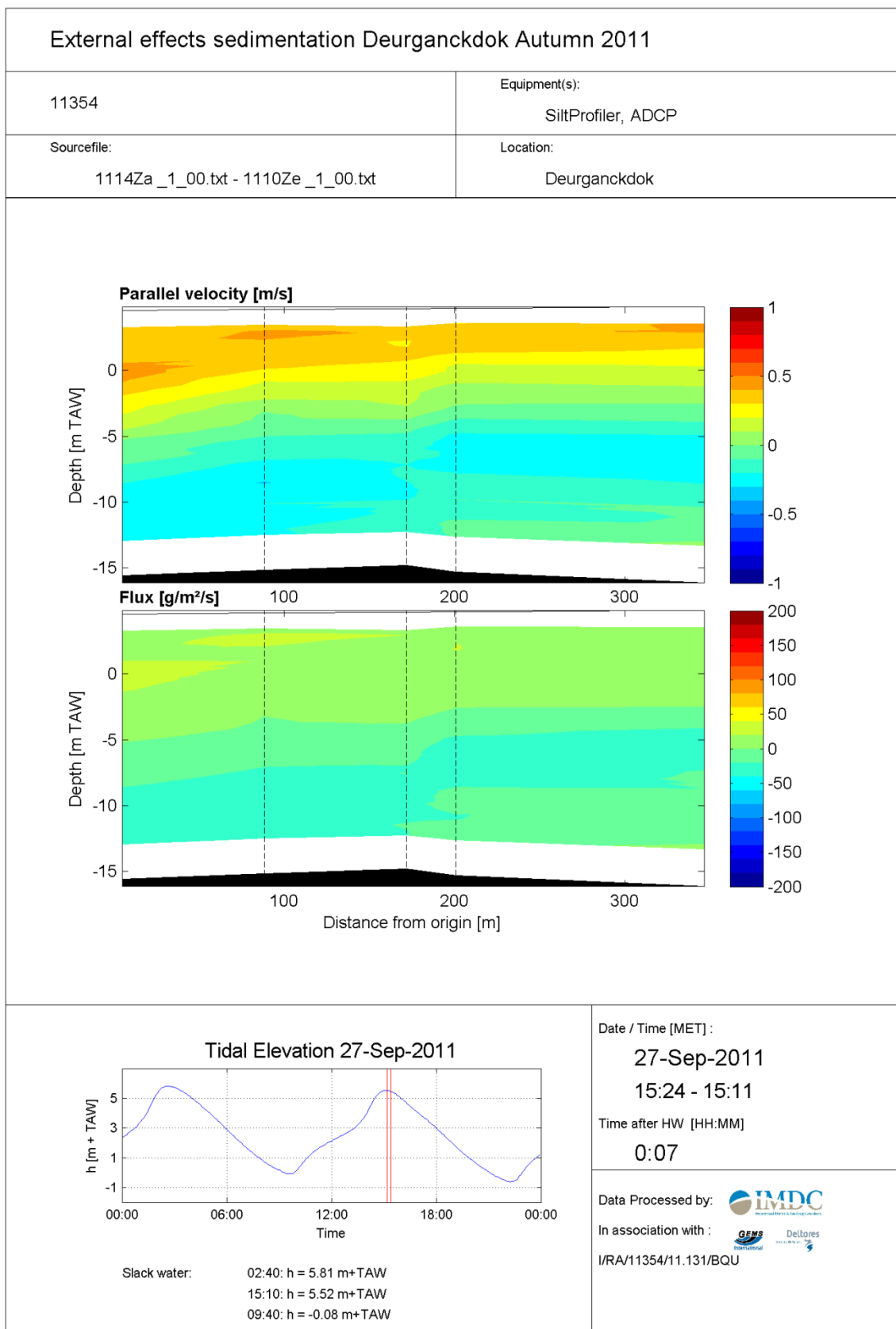


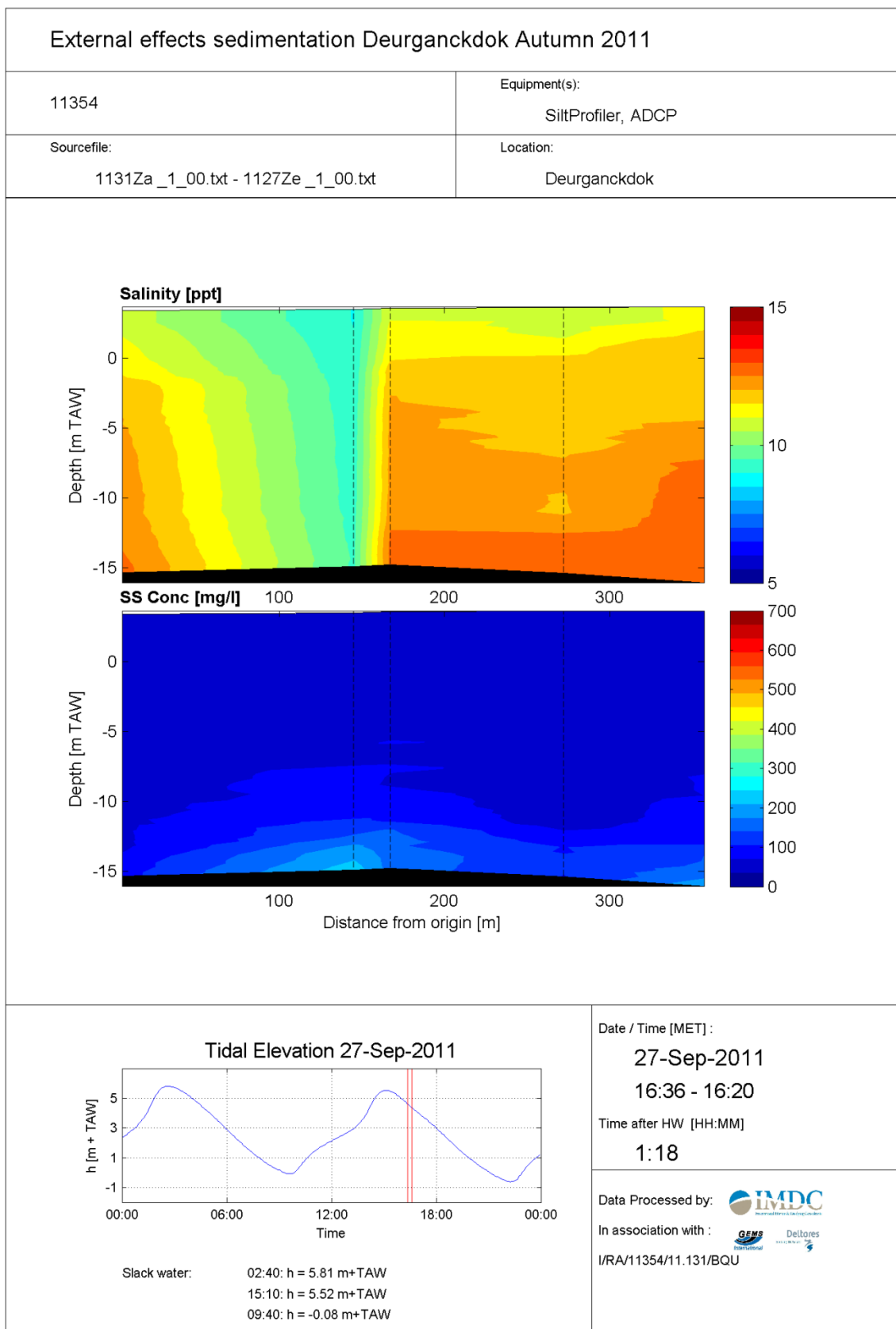


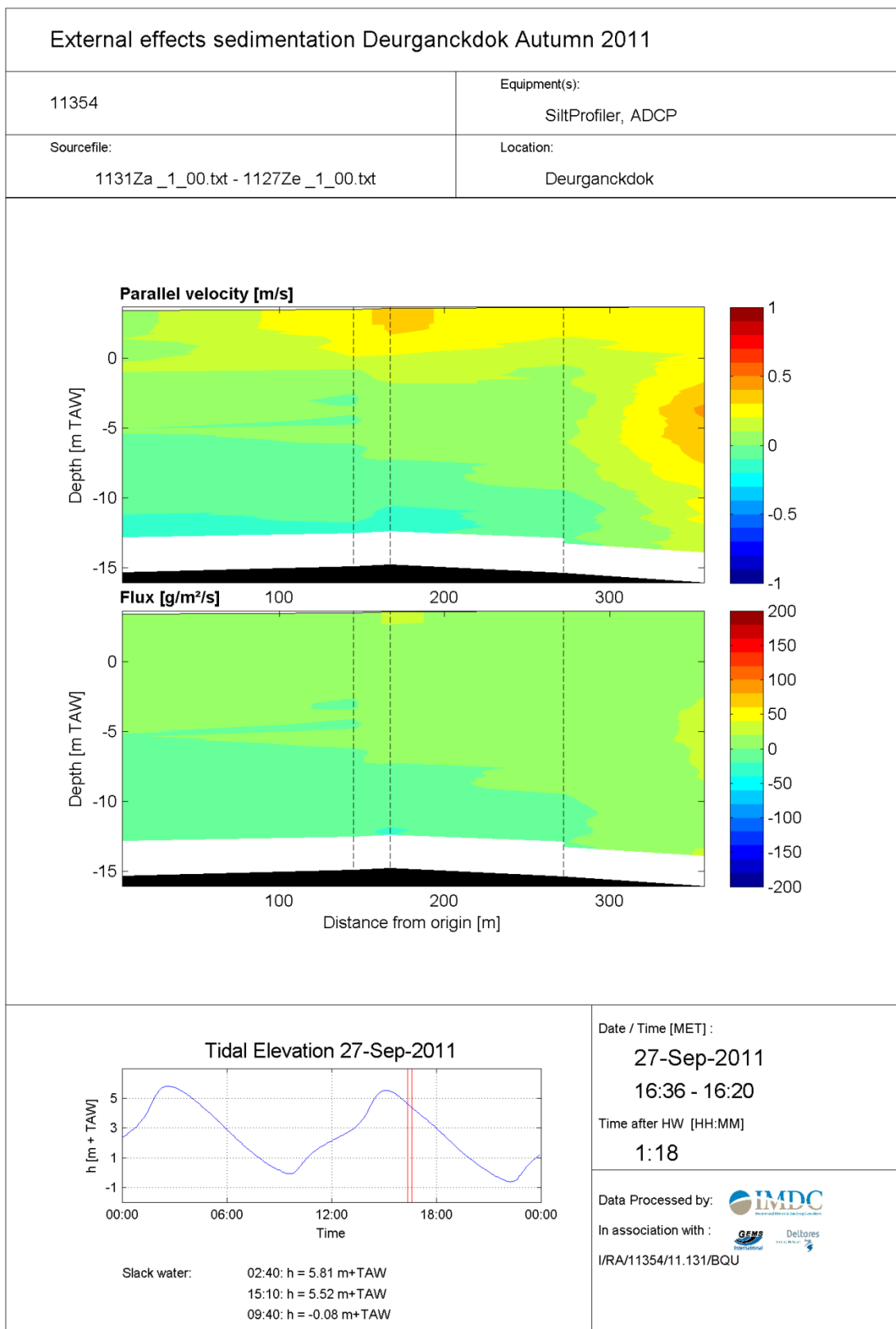


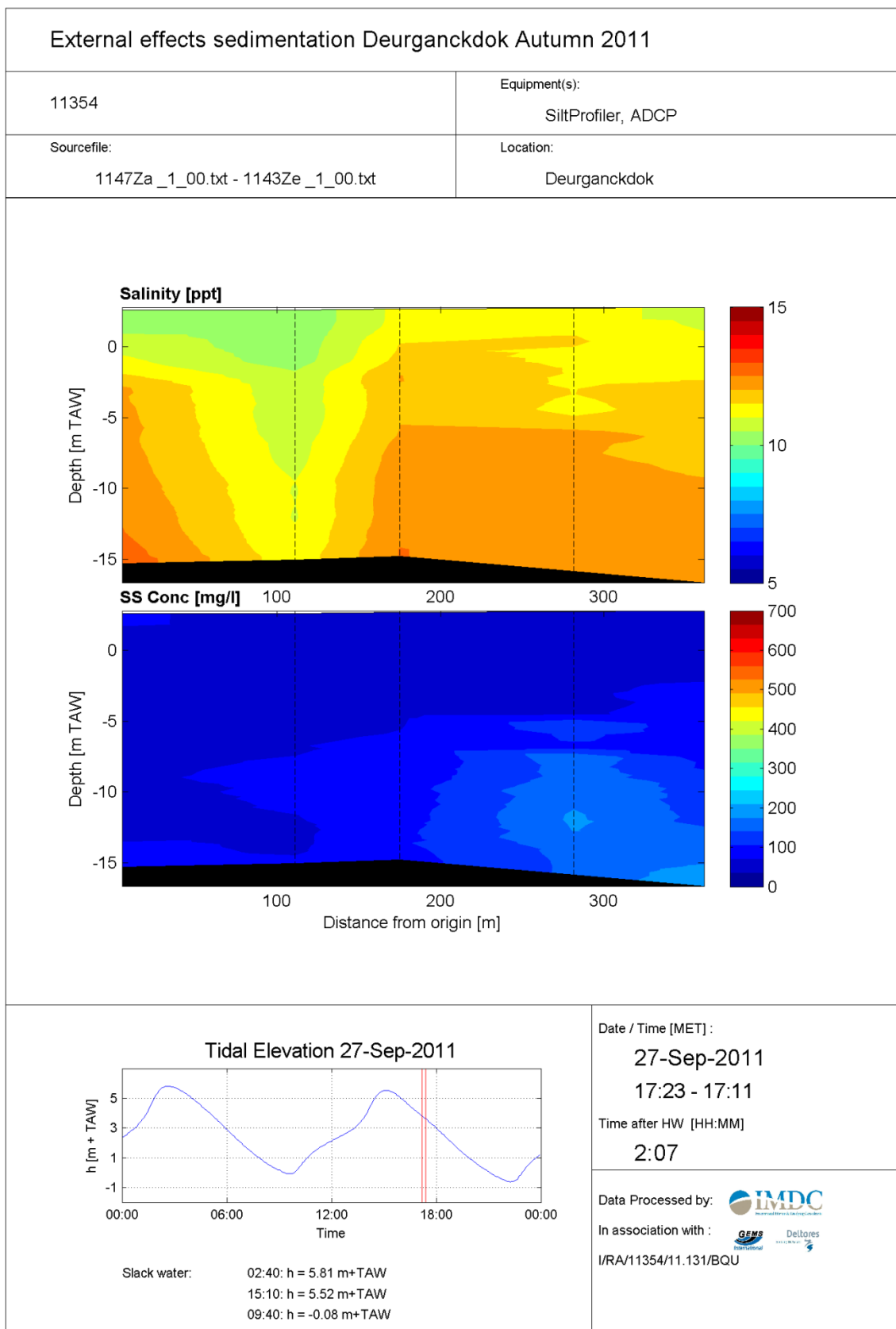


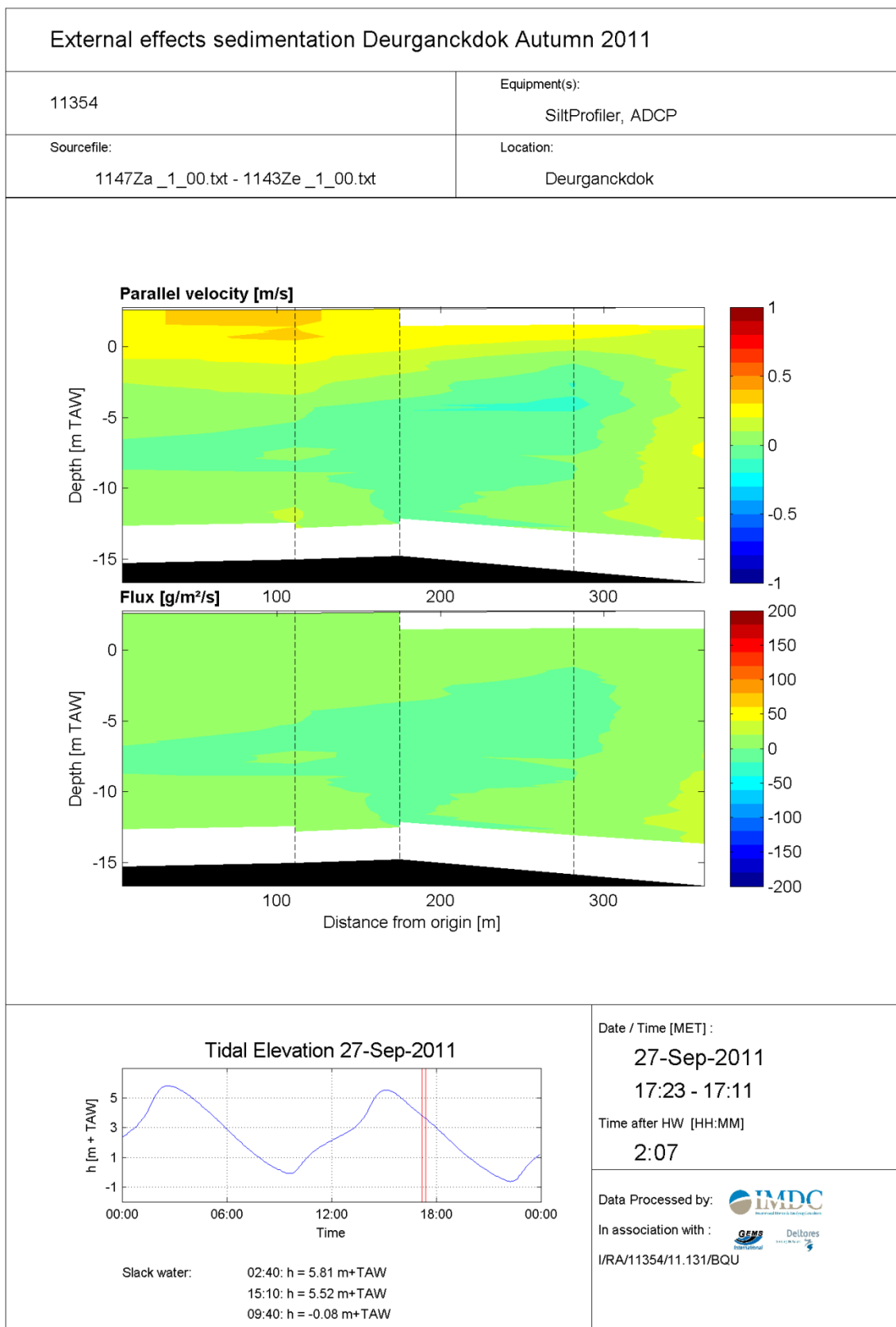


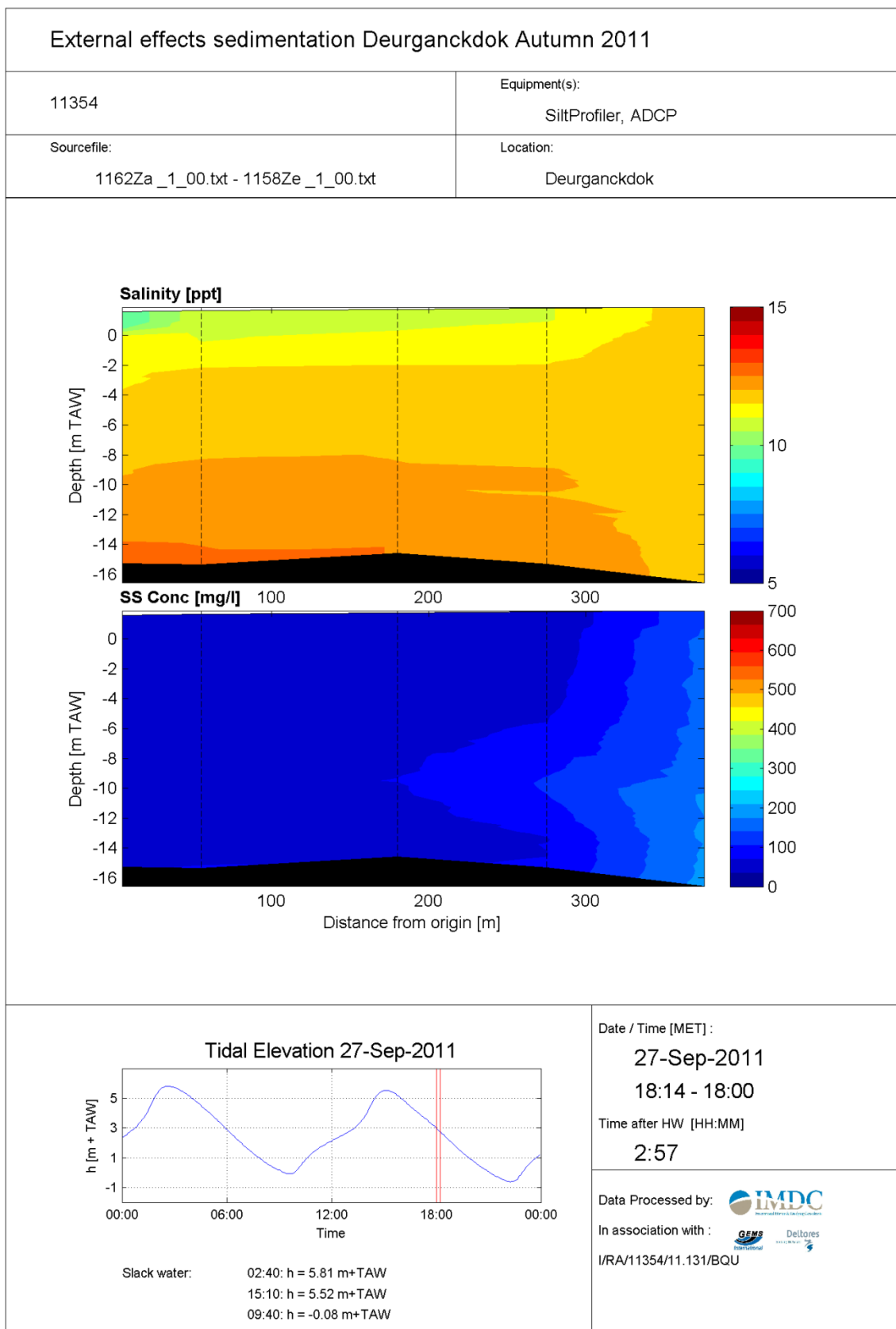


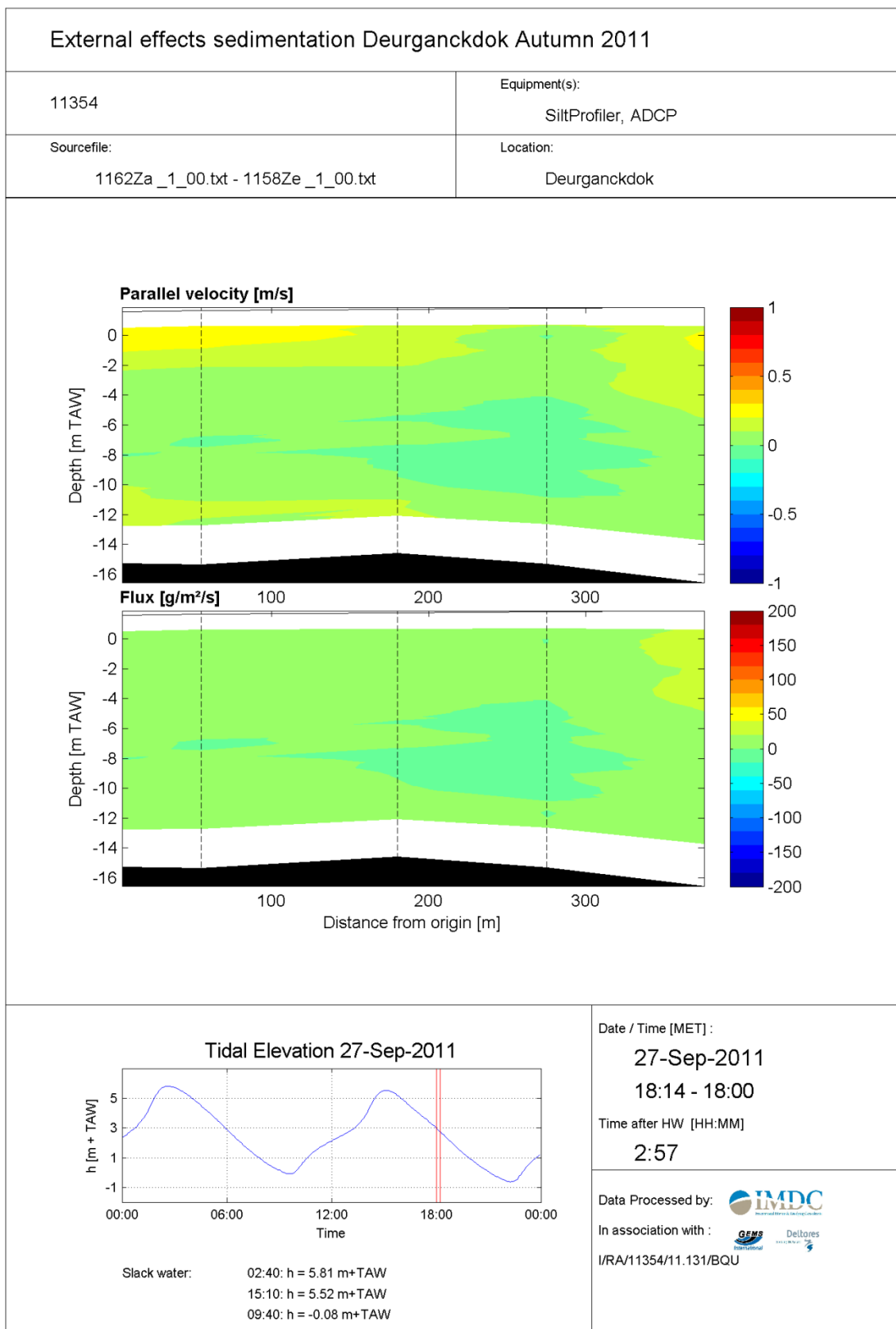


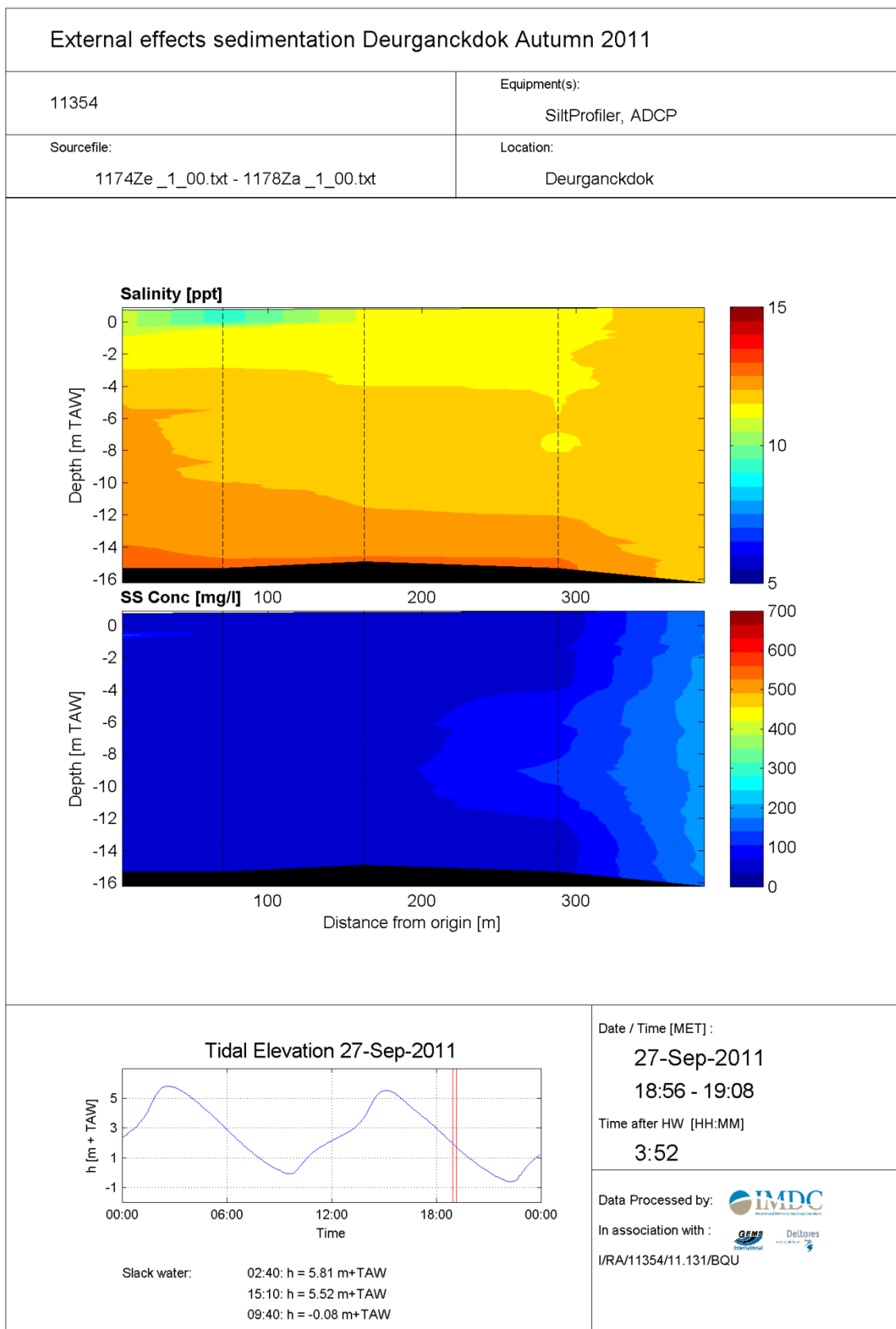


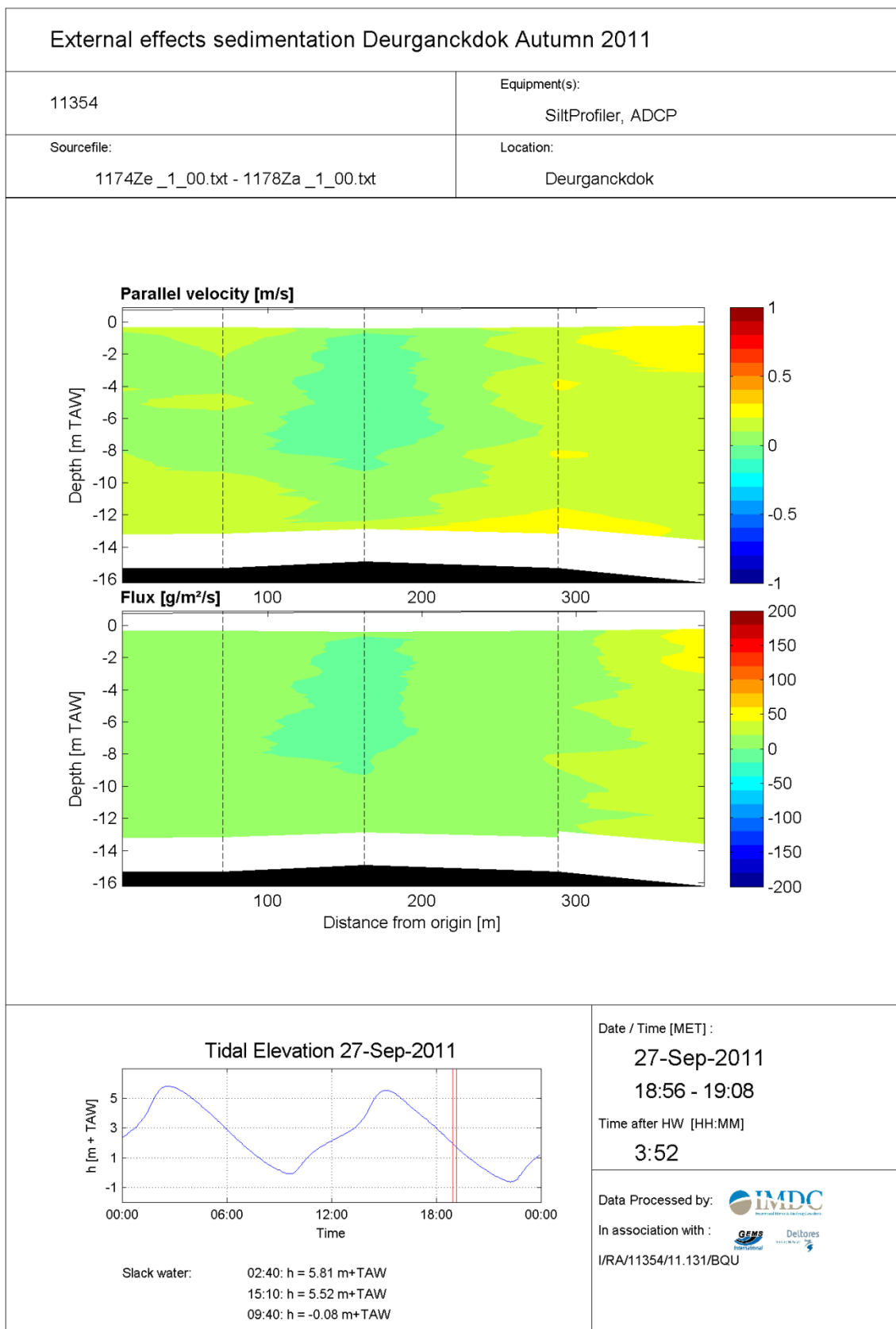












Annex G Overview of HCBS2 and aanslibbing Deurganckdok reports

Report	Description of HCBS2
Ambient Conditions Lower Sea Scheldt	
5.3	Overview of ambient conditions in the river Scheldt – January-June 2006 (I/RA/11291/06.088/MSA)
5.4	Overview of ambient conditions in the river Scheldt – July-December 2006 (I/RA/11291/06.089/MSA)
5.5	Overview of ambient conditions in the river Scheldt : RCM-9 buoy 84 & 97 (1/1/2007 -31/3/2007) (I/RA/11291/06.090/MSA)
5.6	Analysis of ambient conditions during 2006 (I/RA/11291/06.091/MSA)
Calibration	
6.1	Winter Calibration (I/RA/11291/06.092/MSA)
6.2	Summer Calibration and Final Report (I/RA/11291/06.093/MSA)
Through tide Measurements Winter 2006	
7.1	21/3 Scheldewacht – Deurganckdok – Salinity Distribution (I/RA/11291/06.094/MSA)
7.2	22/3 Parel 2 – Deurganckdok (I/RA/11291/06.095/MSA)
7.3	22/3 Laure Marie – Liefkenshoek (I/RA/11291/06.096/MSA)
7.4	23/3 Parel 2 – Schelle (I/RA/11291/06.097/MSA)
7.5	23/3 Laure Marie – Deurganckdok (I/RA/11291/06.098/MSA)
7.6	23/3 Veremans Waarde (I/RA/11291/06.099/MSA)
HCBS Near bed continuous monitoring (Frames)	
8.1	Near bed continuous monitoring winter 2006 (I/RA/11291/06.100/MSA)
INSSEV	
9	Settling Velocity - INSSEV summer 2006 (I/RA/11291/06.102/MSA)
Cohesive Sediment	
10	Cohesive sediment properties summer 2006 (I/RA/11291/06.103/MSA)
Through tide Measurements Summer 2006	
11.1	Through Tide Measurement Sediview and Siltprofiler 27/9 Stream - Liefkenshoek (I/RA/11291/06.104/MSA)
11.2	Through Tide Measurement Sediview 27/9 Veremans - Raai K (I/RA/11291/06.105/MSA)
11.3	Through Tide Measurement Sediview and Siltprofiler 28/9 Stream - Raai K (I/RA/11291/06.106/MSA)
11.4	Through Tide Measurement Sediview 28/9 Veremans - Waarde(I/RA/11291/06.107/MSA)
11.5	Through Tide Measurements Sediview 28/9 Parel 2 - Schelle (I/RA/11291/06.108/MSA)
11.6	Through Tide measurement 26/9 Scheldewacht – Deurganckdok – Salinity

	Distribution (I/RA/11291/06.161/MSA)
Analysis	
12	Report concerning the presence of HCBS layers in the Scheldt river (I/RA/11291/06.109/MSA)

Report Description of Opvolging aanslibbing Deurganckdok between April 2006 till March 2008	
Sediment Balance: Bathymetry surveys, Density measurements, Maintenance and construction dredging activities	
1.1	Sediment Balance: Three monthly report 1/4/2006 – 30/06/2006 (I/RA/11283/06.113/MSA)
1.2	Sediment Balance: Three monthly report 1/7/2006 – 30/09/2006 (I/RA/11283/06.114/MSA)
1.3	Sediment Balance: Three monthly report 1/10/2006 – 31/12/2006 (I/RA/11283/06.115/MSA)
1.4	Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.116/MSA)
1.5	Annual Sediment Balance (I/RA/11283/06.117/MSA)
1.6	Sediment balance Bathymetry: 2005 – 3/2006 (I/RA/11283/06.118/MSA)
1.10	Sediment Balance: Three monthly report 1/4/2007 - 30/06/2007 (I/RA/11283/07.081/MSA)
1.11	Sediment Balance: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.082/MSA)
1.12	Sediment Balance: Three monthly report 1/10/2007 – 31/12/2007 (I/RA/11283/07.083/MSA)
1.13	Sediment Balance: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/07.084/MSA)
1.14	Annual Sediment Balance (I/RA/11283/07.085/MSA)
Factors contributing to salt and sediment distribution in Deurganckdok: Salt-Silt (OBS3A) & Frame measurements, Through tide measurements (SiltProfiling & ADCP)	
2.1	Through tide measurement Siltprofiler 21/03/2006 Laure Marie (I/RA/11283/06.087/WGO)
2.2	Through tide measurement Siltprofiler 26/09/2006 Stream (I/RA/11283/06.068/MSA)
2.3	Through tide measurement Sediview spring tide 22/03/2006 Veremans (I/RA/11283/06.110/BDC)
2.4	Through tide measurement Sediview spring tide 27/09/2006 Parel 2 (I/RA/11283/06.119/MSA)
2.5	Through tide measurement Sediview average tide 24/10/2007 Parel 2 (I/RA/11283/06.120/MSA)
2.6	Salinity-Silt distribution & Frame Measurements Deurganckdok 13/3/2006 – 31/05/2006 (I/RA/11283/06.121/MSA)
2.7	Salinity -Silt distribution & Frame Measurements Deurganckdok 15/07/2006 – 31/10/2006 (I/RA/11283/06.122/MSA)
2.8	Salinity-Silt distribution & Frame Measurements Deurganckdok 12/02/2007 – 18/04/2007 (I/RA/11283/06.123/MSA)
2.9	Calibration stationary equipment autumn (I/RA/11283/07.095/MSA)
2.10	Through tide measurement Siltprofiler 23 October 2007 (I/RA/11283/07.086/MSA)
2.11	Through tide measurement Salinity Profiling winter (I/RA/11283/07.087/MSA)
2.12	Through tide measurement Sediview winter 11 March 2008 Transect I (I/RA/11283/07.088/MSA)

Report Description of Opvolging aanslibbing Deurganckdok between April 2006 till March 2008	
2.13	Through tide measurement Sediview winter 11 March 2008 Transect K (I/RA/11283/07.089/MSA)
2.14	Through tide measurement Sediview winter 11 March 2008 Transect DGD (I/RA/11283/07.090/MSA)
2.15	Through tide measurement Siltprofiler 12 March 2008 (I/RA/11283/07.091/MSA)
2.16	Salinity-Silt distribution Deurganckdok summer (21/6/2007 – 30/07/2007) (I/RA/11283/07.092/MSA)
2.17	Salinity-Silt distribution & Frame Measurements Deurganckdok autumn (17/09/2007 - 10/12/2007) (I/RA/11283/07.093/MSA)
2.18	Salinity-Silt distribution & Frame Measurements Deurganckdok winter (18/02/2008 - 31/3/2008) (I/RA/11283/07.094/MSA)
2.19	Calibration stationary & mobile equipment winter (I/RA/11283/07.096/MSA)
Boundary Conditions: Upriver Discharge, Salt concentration Scheldt, Bathymetric evolution in access channels, dredging activities in Lower Sea Scheldt and access channels	
3.1	Boundary conditions: Three monthly report 1/1/2007 – 31/03/2007 (I/RA/11283/06.127/MSA) including HCBS 2 report 5.5
3.2	Boundary conditions: Annual report (I/RA/11283/06.128/MSA)¹
3.10	Boundary conditions: Three monthly report 1/4/2007 – 30/06/2007 (I/RA/11283/07.097/MSA)
3.11	Boundary conditions: Three monthly report 1/7/2007 – 30/09/2007 (I/RA/11283/07.098/MSA)
3.12	Boundary conditions: Three monthly report 1/10/2007 – 31/12/2007 (I/RA/11283/07.099/MSA)
3.13	Boundary conditions: Three monthly report 1/1/2008 – 31/03/2008 (I/RA/11283/07.100/MSA)
3.14	Boundary conditions: Annual report (I/RA/11283/07.101/MSA)
Analysis	
4.1	Analysis of Siltation Processes and Factors, 4/06 – 3/07 (I/RA/11283/06.129/MSA)
4.10	Analysis of Siltation Processes and Factors, 4/07 – 3/08 (I/RA/11283/07.102/MSA)

¹ considered in report 5.6 'Analysis of ambient conditions during 2006' (I/RA/11291/06.091/MSA) in the framework of the study 'Extension of the study about density currents in the Beneden Zeeschelde'